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# DETECTION AND MAPPING PACKAGE

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## VOLUME 2b: SOFTWARE USER MANUAL (part 2)

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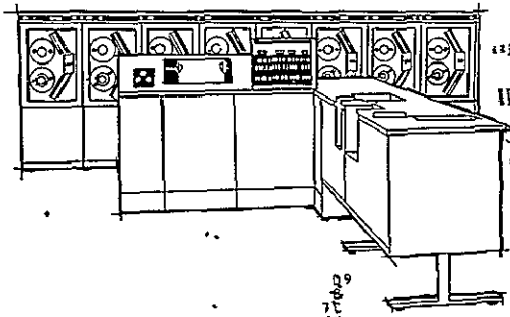
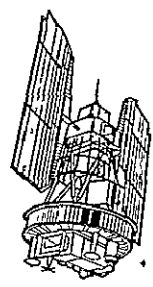
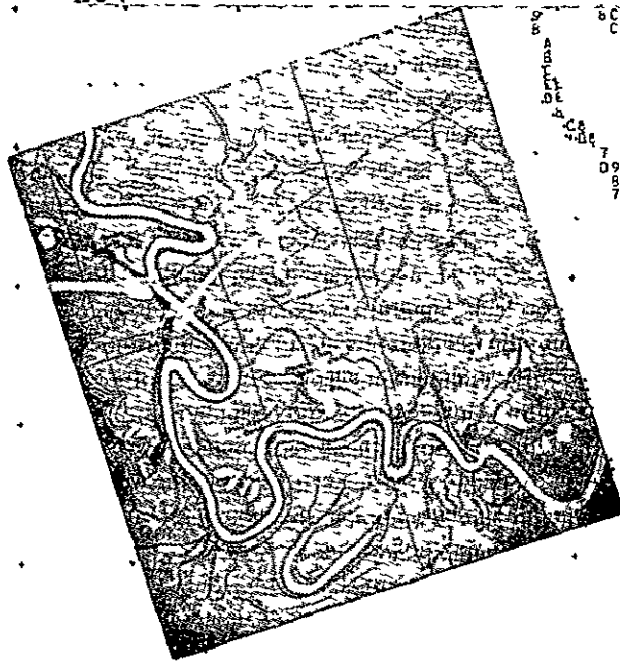
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Lyndon B Johnson Space Center  
Houston Texas 77058



DETECTION AND MAPPING PACKAGE

VOLUME 2b: SOFTWARE USER  
MANUAL (part 2)

APPROVED BY



A. W. Patteson

Chief, Exploratory Investigations Branch



R. B. MacDonald

Chief, Earth Observations Division

EARTH OBSERVATIONS DIVISION  
SCIENCE AND APPLICATIONS DIRECTORATE  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
LYNDON B. JOHNSON SPACE CENTER  
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16 Abstract The DAM package is an integrated set of manual procedures, computer programs, and graphic devices designed for efficient production of precisely registered and formatted maps from digital Landsat multispectral scanner (MSS) data. The software can be readily implemented on any Univac 1100 series computer with standard peripheral equipment. This version of the software includes pre-defined spectral limits for use in classifying and mapping surface water.			
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## PREFACE

Multispectral scanners onboard NASA unmanned Landsat satellites provide an ideal source of current data for Earth resources applications. The Detection and Mapping (DAM) package was originally developed at the Johnson Space Center for rapid conversion of the Landsat digital data into hydrographic maps matching standard topographic quadrangle series. Recent improvements in both the manual procedures and computer programs within the DAM package make it easier to use, faster, and more general purpose.

Documentation and software for the DAM package are available to all public and private agencies, in accordance with the NASA policy of encouraging maximum use of remote sensing technology.

Published documentation, of which this is volume 2b, is comprised of the following volumes:

Volume 1. General Procedure

Volume 2. Software User Manual (in two parts)

Volume 3. Control Network Establishment

These volumes supersede the previous documentation published in 1973. Software releases prior to version 7602 cannot be used with the current documentation.

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DAM PACKAGE APPENDICES (VERSION 7605)

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DETECTION AND MAPPING PACKAGE  
=====

SYSTEM DESIGN  
-----

E H SCHLOSSER

PROGRAMMING  
-----

M L BROWN  
W G EPPLER  
W A HOLLEY  
T R KELL  
E H SCHLOSSER

FUNDING  
-----

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
LYNDON B JOHNSON SPACE CENTER  
HOUSTON, TEXAS 77058

CONTRACTOR  
-----

LOCKHEED ELECTRONICS COMPANY  
AEROSPACE SYSTEMS DIVISION  
HOUSTON, TEXAS 77058

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APPENDIX B EXEC COMMAND DOCUMENTATION  
APPENDIX C PROGRAM DOCUMENTATION  
APPENDIX D COMMAND DOCUMENTATION  
APPENDIX E SAMPLE RUNSTREAMS  
APPENDIX F SAMPLE CONTROL NETWORKS  
APPENDIX G SAMPLE SPECTRAL LIMITS

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## DAM PACKAGE APPENDIX A: GENERAL DOCUMENTATION

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## DAM PACKAGE APPENDIX A GENERAL DOCUMENTATION

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### DAM PACKAGE =====

THE DETECTION AND MAPPING (DAM) PACKAGE IS A USER-ORIENTED SYSTEM DESIGNED TO PRODUCE ACCURATE MAPS FROM LANDSAT DIGITAL DATA AT LOWEST POSSIBLE COST. COMPONENTS OF THE DAM PACKAGE ARE

- MANUAL PROCEDURES
- COMPUTER PROGRAMS
- SPECIAL GRAPHIC DEVICES

THE FIVE GENERAL STEPS INVOLVED IN PROCESSING A LANDSAT SCENE WITH THE DAM PACKAGE ARE

- ACQUIRE DATA (LANDSAT TAPES & BASE MAPS)
- ESTABLISH CONTROL NETWORK
- DETERMINE SPECTRAL LIMITS (OR USE PRE-DEFINED LIMITS)
- SPECIFY MAP CHARACTERISTICS (LOCATION, FORMAT, SCALE, ETC.)
- GENERATE MAPS

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LANDSAT  
=====

ONBOARD EACH ORBITING LANDSAT IS A MULTI-SPECTRAL SCANNER (MSS) WHICH SCANS THE EARTH BELOW, MEASURING ITS SURFACE RADIANCE IN THE FOLLOWING WAVELENGTHS

MSS CHANNEL	SPECTRAL BAND	WAVELENGTH (MICROMETERS)	RADIANCE VALUES
1	4 (GREEN)	0.5-0.6	0-127
2	5 (RED)	0.6-0.7	0-127
3	6 (NEAR IR)	0.7-0.8	0-127
4	7 (NEAR IR)	0.8-1.1	0-63

DIGITAL MSS DATA FOR EACH 100 X 100 NAUTICAL MILE LANDSAT SCENE ARE DIVIDED INTO FOUR 25-MILE-WIDE STRIPS (NUMBERED 1 THRU 4 FROM LEFT TO RIGHT) THEY ARE RECORDED ON COMPUTER TAPE IN SEVERAL FORMS

1. SINGLE-FILE TAPES. EACH REEL CONTAINS DATA FOR ONE STRIP IN A SINGLE FILE (4 REELS PER SCENE)
2. MULTI-FILE TAPES. EACH REEL CONTAINS DATA FOR TWO OR FOUR STRIPS IN SEPARATE FILES (1 OR 2 REELS PER SCENE, DEPENDING ON TAPE DENSITY).

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### RULES =====

#### GENERAL -----

IN EXPLAINING COMPUTER INPUT, WE WILL ENCLOSE THE INPUT DESCRIPTION IN <POINTED> BRACKETS , AND OPTIONAL INPUT IN [SQUARE] BRACKETS DO NOT INCLUDE THESE EXPLANATORY CHARACTERS < > [ ] WHEN ACTUALLY SUBMITTING INPUT TO THE COMPUTER

WE WILL ENCLOSE ALTERNATIVE FORMS OF INPUT IN BRACES.

WE WILL ALSO USE A TRIPLE PERIOD ( . . . ) TO INDICATE THAT THE PREVIOUS ITEM(S) MAY BE REPEATED ANY NUMBER OF TIMES

#### EXEC COMMANDS -----

EXEC COMMAND STATEMENTS COMMUNICATE WITH THE EXECUTIVE. THEY.

- MUST START IN COLUMN 1 WITH THE CHARACTER @
- ARE TERMINATED BY:
  - END OF CARD, OR
  - CARRIAGE RETURN
- CANNOT BE ABBREVIATED
- CANNOT BE USED WITHIN PROGRAMS (EXCEPT @EOF & @ADD)

THE FORMAT FOR EXEC COMMAND STATEMENTS IS.

<EXEC COMMAND>[, <OPTIONS>] [ <OPERAND>[, . ] [ . <COMMENT> ]

#### COMMANDS -----

COMMAND STATEMENTS COMMUNICATE WITH A PROGRAM THEY:

- MAY START IN ANY COLUMN
- ARE TERMINATED BY
  - END OF CARD (UNLESS SPANNED), OR
  - CARRIAGE RETURN, OR
  - TRIPLE COMMA (,,)
- MAY BE ABBREVIATED
- CAN ONLY BE USED WITHIN PROGRAMS

THE FORMAT FOR COMMAND STATEMENTS IS:

<COMMAND>[, <SPECIFICATION FIELD>[, ... ] [ . , <COMMENT> ]

## DAM PACKAGE APPENDIX A: GENERAL DOCUMENTATION

### REMARKS

-----

REMARK STATEMENTS ARE PRINTED, BUT OTHERWISE IGNORED THEY

- MUST START IN COLUMN 1 WITH THE CHARACTER \*
- ARE TERMINATED BY
  - END OF CARD, OR
  - CARRIAGE RETURN
- CAN ONLY BE USED WITHIN PROGRAMS

THE FORMAT FOR REMARK STATEMENTS IS-

\*<REMARKS TO BE PRINTED>

### SPECIFICATION FIELDS

-----

SPECIFICATION FIELDS PROVIDE INFORMATION NECESSARY TO PROCESS A COMMAND THEY

- MAY START IN ANY COLUMN
- ARE TERMINATED BY:
  - ONE OR MORE COMMAS, OR
  - END OF CARD, OR
  - CARRIAGE RETURN
- MAY BE ABBREVIATED
- CAN ONLY BE USED WITHIN COMMAND STATEMENTS

THE FORMAT FOR A SPECIFICATION FIELD IS

{<ALPHANUMERIC SPECIFICATION> }  
{<NUMERIC SPECIFICATION>[ <NOTE>]}

### NUMERIC SPECIFICATIONS

-----

THE FOLLOWING TYPES OF NUMERIC SPECIFICATIONS ARE ALLOWED:

1. DECIMAL -- NORMAL BASE 10 NOTATION, EITHER WITH OR WITHOUT THE DECIMAL POINT, AS APPROPRIATE
2. SEXAGENARY -- BASE 60 NOTATION, LEGAL ONLY FOR LATITUDE AND LONGITUDE.

THE FORMAT FOR SEXAGENARY NOTATION IS

{[<DEGREES>.]<MINUTES>[ <SECONDS>]}  
{[<DEGREES>/]<MINUTES>[/<SECONDS>]}

## DAM PACKAGE APPENDIX A: GENERAL DOCUMENTATION

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### FILES =====

1. DATA IS MAINTAINED ON TAPES AND DISK IN FILES
2. THE EXTERNAL OR SYSTEM NAME FOR A FILE IS FORMED AS FOLLOWS.  
[<QUALIFIER>\*]<FILE>
3. IF NO QUALIFIER IS GIVEN, THE PROJECT SPECIFIED ON THE @RUN  
CARD IS USED AS QUALIFIER
4. A FILE NAME ALWAYS ENDS WITH A PERIOD.
5. SYMBOLIC ELEMENTS WITHIN A DISK FILE CONTAIN DATA IN CARD IMAGE  
FORMAT.
6. THE NAME FOR A SYMBOLIC ELEMENT IS FORMED AS FOLLOWS  
[<QUALIFIER>\*]<FILE> <ELEMENT>
7. QUALIFIER, FILE, AND ELEMENT EACH MUST BE 12 CHARACTERS OR LESS  
CHOSEN FROM THE CHARACTER SET A TO Z, 0 TO 9, AND DASH (-)

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ORIGINAL PAGE IS POOR

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### CARD CODES

=====

FOR MOST KEYPUNCHES (IBM 026, 029, ETC ) THE FOLLOWING CHARACTERS MAY NOT BE ENTERED DIRECTLY, EVEN IF PRESENT ON THE KEYBOARD, BUT MUST BE MULTI-PUNCHED INSTEAD

CHAR- ACTER -----	MULTI- PUNCH -----	
a	87	
:	85	
'	84	
=	83	
&	82	
?	+0	(PLUS ZERO)
#	+87	
)	+84	
;	-86	
%	085	(ZERO EIGHT FIVE)
(	084	(ZERO EIGHT FOUR)

### NOTES

-----

1. THE CHARACTER PLUS IS A NUMERIC SHIFT P.

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## COORDINATES

=====

THE AREA OF A LANDSAT SCENE TO BE PROCESSED MAY BE DESCRIBED IN  
SCANNER COORDINATES, IN EARTH COORDINATES (GEOGRAPHIC OR UTM),  
OR IN MAP COORDINATES, AS SHOWN BELOW

TYPE	SYSTEM/UNITS	AXES	COMMANDS
----	-----	----	-----
SCANNER	SCAN	LINE,SAMPLE	ALIGN ORIGIN POINT TICK WINDOW
EARTH	DEGREES	NORTH,WEST	ALIGN ORIGIN POINT TICK WINDOW
	MINUTES	NORTH,WEST	TICK WINDOW
	KM	EAST,NORTH	ALIGN ORIGIN POINT TICK WINDOW
	METRES	EAST,NORTH	ALIGN ORIGIN POINT TICK WINDOW
MAP	PRINT	LINE,COLUMN	WINDOW
	CM	DOWN,RIGHT	WINDOW
	INCHES	DOWN,RIGHT	WINDOW

## NOTES

-----

1. SEE INDIVIDUAL COMMANDS FOR DETAILED INSTRUCTIONS.
2. UNIVERSAL TRANSVERSE MERCATOR (UTM) COORDINATES MAY BE EXPRESSED IN KM (KILOMETRES) OR METRES, PROVIDED THE ZONE NUMBER HAS BEEN PREVIOUSLY SPECIFIED
3. MAP COORDINATES MAY BE EXPRESSED IN PRINT LINE AND COLUMN, IN CM (CENTIMETRES), OR IN INCHES



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COMPUTER RUNS  
=====

THE RUNSTREAM FOR THE DAM PACKAGE ALWAYS HAS THE FOLLOWING FORM

```
@RUN[,<PRIORITY>/NR] <RUNID>,<ACCOUNT>,<PROJECT>[,<MINUTES>,<PAGES>]
@USE DAM ,<EXTERNAL NAME OF DAM PROGRAM FILE>
@ASG,A DAM.
@ADD DAM SETUP
<DESIRED EXEC COMMANDS>
<DESIRED COMMANDS>
<DESIRED EXEC COMMANDS>
<DESIRED COMMANDS>
...
...
@FIN
```

NOTES:

-----

1. <PRIORITY>, /NR, <MINUTES>, AND <PAGES> ARE REQUIRED FOR BATCH RUNS, BUT NOT FOR DEMAND TERMINAL RUNS
2. ANY NUMBER OF PROGRAMS MAY BE EXECUTED IN A SINGLE COMPUTER RUN (EXCEPT FOR ERTS-DUP)

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LOCAL STANDARDS  
=====

JSC EXTERNAL NAME OF DAM PROGRAM FILE  
-----

TF5-L76758\*DAM.

JSC RUN PRIORITY (BATCH ONLY)  
-----

R DAYTIME 1  
S DAYTIME 2  
U OVERNIGHT 1  
V OVERNIGHT 2  
Z WEEKEND

JSC RUNID (BATCH & DEMAND)  
-----

<RUNID> ::= <2 LETTER USER INITIALS><3 CHARACTER BOX><1 CHARACTER>

JSC PROJECT (BATCH & DEMAND)  
-----

<PROJECT> ::= <JSC BRANCH>-<BADGE>  
<BADGE> ::= <1 LETTER EMPLOYER CODE><5 DIGIT EMPLOYEE NUMBER>

JSC TAPE STAGING (DEMAND ONLY):  
-----

@JSC\*CALLUP.TAPES <BADGE>\*<RUNID>.[,<REEL>[/<SUBOPTION>][, ..]]

JSC TAPE ASSIGNMENT (BATCH & DEMAND)  
-----

@ASG,<OPTIONS>[/<SUBOPTION>] <FILE>,<EQUIP>,<REEL>[,<DAYS>,<TITLE>]

JSC TAPE SUBOPTION (BATCH & DEMAND)  
-----

F FOREIGN (READ OR WRITE)  
T SCRATCH  
S NEW SAVE  
W WRITE ON OLD SAVE  
(NO SUBOPTION MEANS READ OLD SAVE)

## DAM PACKAGE APPENDIX B. EXEC COMMAND DOCUMENTATION

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...	..
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.....	...
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...	..
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EXEC COMMANDS

=====

@ADD <ELEMENT NAME>

@ASG,<OPTIONS> <FILE NAME>[,U9,<REEL NUMBER>]

@COPY,<OPTIONS> <INPUT FILE OR ELEMENT>,<OUTPUT FILE OR ELEMENT>

@ED,CPU <ELEMENT NAME>

@EOF

@FIN

@FREE[,S] <FILE NAME>

@LOCATE[,E] 3 ,<LANDSAT STRIP NUMBER>

@REWIND <FILE NAME>

@RUN[,<PRIORITY>/NR] <RUNID>,<ACCOUNT>,<PROJECT>[,<MINUTES>,<PAGES>]

@USE <INTERNAL FILE NAME>,<COMPLETE EXTERNAL FILE NAME>

@XQT[,E] <PROGRAM NAME>

## DAM PACKAGE APPENDIX B. EXEC COMMAND DOCUMENTATION

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### @ADD EXEC COMMAND

@ADD <ELEMENT NAME>

#### EXPLANATION

THIS EXEC COMMAND REQUESTS THAT SUBSEQUENT CARD IMAGE INPUT BE TAKEN FROM THE SPECIFIED SYMBOLIC ELEMENT AT THE END OF THE ELEMENT, INPUT WILL REVERT TO THE TERMINAL OR CARD READER

#### EXAMPLES

@ADD MYFILE.CONTROL

@ADD USERFILE.SPEC-LIMITS

#### RESTRICTIONS

1. THIS EXEC COMMAND MAY BE USED WITHIN A PROGRAM
2. THE DISK FILE CONTAINING THE SYMBOLIC ELEMENT SHOULD BE CURRENTLY ASSIGNED TO THE RUN

## DAM PACKAGE APPENDIX B. EXEC COMMAND DOCUMENTATION

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### @ASG EXEC COMMAND

=====

@ASG, { BOTH[Z] <FILE NAME>,U9,<REEL NUMBER>  
      BOTV[Z] <FILE NAME>,U9,<REEL NUMBER>  
      A <FILE NAME>  
      CP <FILE NAME> }

### EXPLANATION

-----

THE FIRST FORM OF THIS EXEC COMMAND ASSIGNS A TAPE FILE STORED ON THE SPECIFIED REEL AND REQUESTS THAT IT BE MOUNTED ON AN AVAILABLE 800 BPI 9 TRACK DRIVE. THE Z OPTION IS ONLY USED FROM A TERMINAL.

THE SECOND FORM OF THIS EXEC COMMAND ASSIGNS A TAPE FILE STORED ON THE SPECIFIED REEL AND REQUESTS THAT IT BE MOUNTED ON AN AVAILABLE 1600 BPI 9 TRACK DRIVE. THE Z OPTION IS ONLY USED FROM A TERMINAL.

THE THIRD FORM ASSIGNS AN EXISTING DISK FILE.

THE FOURTH FORM ASSIGNS A NEW DISK FILE.

### EXAMPLES

-----

@ASG,BOTH 3.,U9,X12345      ASSIGN FILE '3' (ON REEL X12345)

@ASG,A DAM.                . ASSIGN FILE 'DAM' (STORED ON DISK)

### RESTRICTIONS

-----

1. THIS EXEC COMMAND MAY NOT BE USED WITHIN A PROGRAM.
2. REEL NUMBERS ARE LIMITED TO SIX CHARACTERS CHOSEN FROM THE LETTERS A-Z AND THE NUMBERS 0-9.
3. SEE LOCAL STANDARDS FOR INFORMATION ON TAPE MANAGEMENT AND STAGING.
4. MOST DISK FILES (EXCEPT FOR THE DAM PROGRAM FILE) MAY ONLY BE ASSIGNED TO ONE RUN AT A TIME. TO AVOID UNNECESSARY CONFLICTS BETWEEN RUNS, USERS SHOULD @ASG,A SUCH FILES (EG. ONE CONTAINING A CONTROL NETWORK IN AN ELEMENT) JUST BEFORE THEY ARE NEEDED, AND @FREE THEM AS SOON AS POSSIBLE.

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### @COPY EXEC COMMAND

@COPY, {S} <INPUT FILE OR ELEMENT>,<OUTPUT FILE OR ELEMENT>  
          {A}

### EXPLANATION

THIS EXEC COMMAND COPIES THE SPECIFIED FILE OR ELEMENT   MEANING  
OF THE COPY OPTIONS IS AS FOLLOWS:

  S   SYMBOLIC ELEMENTS (CONTROL NETWORKS, SPECTRAL LIMITS, ETC )  
  A   ABSOLUTE PROGRAM ELEMENTS

### EXAMPLES

@COPY,S FILA.ELT1,FILB.ELT1   . COPY SYMBOLIC ELEMENT ELT1  
                                  .   FROM FILE FILA TO FILE FILB

@COPY,A DAM.,TPF\$.           . COPY ALL ABSOLUTE PROGRAM  
                                  .   ELEMENTS FROM DAM. TO TPF\$

### RESTRICTIONS

1. THIS EXEC COMMAND MAY NOT BE USED WITHIN A PROGRAM.
2. ALL FILES INVOLVED SHOULD BE CURRENTLY ASSIGNED TO THE RUN.

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### SED EXEC COMMAND

SED,CPU <ELEMENT NAME>

#### EXPLANATION

THIS EXEC COMMAND INVOKES THE TEXT EDITOR, A SYSTEM PROCESSOR WHICH ALLOWS THE USER TO CREATE AND UPDATE SYMBOLIC ELEMENTS WITHIN A DISK FILE.

THE EDITOR OPERATES IN TWO MODES. INPUT AND EDIT. IN INPUT MODE, ALL LINES ENTERED ARE DIRECTLY INSERTED INTO THE TEXT. IN EDIT MODE, VARIOUS EDIT COMMANDS MAY BE USED TO MODIFY EXISTING TEXT. MOST EDIT COMMANDS APPLY TO THE CURRENT LINE UNLESS THE NUMBER OF LINES (STARTING WITH THE CURRENT LINE) OR THE RANGE OF LINES IS SPECIFIED.

TO CHANGE MODE (INPUT TO EDIT OR EDIT TO INPUT) ENTER A BLANK LINE.

#### EDIT COMMANDS

C[CHANGE] /<OLD STRING>/<NEW STRING>/[ {<NO OF LINES>  
                                          {<FROM LINE> <TO LINE>}  
                                          ALL} ]

D[DELETE] [ {<NO OF LINES>  
                                          {<FROM LINE> <TO LINE>} ]

EXIT

I[INSERT] <TEXT OF NEW LINE TO BE INSERTED AFTER CURRENT LINE>

LNP (SEE PRINT -- IDENTICAL EXCEPT LINE NUMBERS ARE PRINTED)

L[OCATE] <STRING TO BE SEARCHED FOR IN SUBSEQUENT LINES>

OMIT (EXIT WITHOUT APPLYING THE CORRECTIONS MADE)

P[rint] [ {<NUMBER OF LINES>  
                                          {<FROM LINE> <TO LINE>} ]

<LINE NUMBER TO POSITION EDITOR AT>

+<NUMBER OF LINES FORWARD TO POSITION EDITOR>

-<NUMBER OF LINES BACKWARD TO POSITION EDITOR>

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@EOF EXEC COMMAND  
=====

@EOF

EXPLANATION  
-----

THIS EXEC COMMAND SIGNALS AN END OF FILE ON INPUT FROM CARDS  
OR TERMINAL.

RESTRICTIONS  
-----

1. THIS EXEC COMMAND MAY BE USED WITHIN A PROGRAM
2. IF THIS EXEC COMMAND IMMEDIATELY FOLLOWS THE @XQT STATEMENT  
FOR A PROGRAM, THEN THE COMMANDS FROM THE PREVIOUS PROGRAM  
EXECUTION ARE RECALLED

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@FIN EXEC COMMAND  
=====

@FIN

EXPLANATION  
-----

THIS EXEC COMMAND TERMINATES A RUN

RESTRICTIONS  
-----

1. THIS EXEC COMMAND MAY NOT BE USED WITHIN A PROGRAM

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### afree EXEC COMMAND

afree[ ,S] <FILE NAME>

#### EXPLANATION

THIS EXEC COMMAND FREES A FILE. FOR FILES ON TAPE, THE REEL IS REMOVED FROM THE TAPE DRIVE; THE TAPE DRIVE IS THEN RELEASED TO OTHER USERS UNLESS THE S OPTION WAS SPECIFIED.

#### EXAMPLES

afree 3.

#### RESTRICTIONS

1. THIS EXEC COMMAND MAY NOT BE USED WITHIN A PROGRAM.
2. BOTH TAPE AND DISK FILES SHOULD BE afree-D AS SOON AS THEY ARE NO LONGER NEEDED FOR THE CURRENT RUN.

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## DAM PACKAGE APPENDIX B. EXEC COMMAND DOCUMENTATION

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### @LOCATE EXEC COMMAND

@LOCATE[,E] 3 ,<LANDSAT STRIP NUMBER>

#### EXPLANATION

THIS EXEC COMMAND SEARCHES A LANDSAT MSS MULTI-FILE DATA TAPE AND LOCATES THAT FILE CONTAINING DATA FOR THE SPECIFIED STRIP. THE E OPTION MEANS LOCATE THE STRIP IF AND ONLY IF THE LAST PROGRAM EXECUTION TERMINATED IN ERROR (NORMALLY USED BEFORE @XQT,E)

#### EXAMPLES

@LOCATE 3.,1 . LOCATE STRIP 1

@LOCATE,E 3.,3 . LOCATE STRIP 3 ON ERROR TERMINATION

#### RESTRICTIONS

1. THIS EXEC COMMAND MAY NOT BE USED WITHIN A PROGRAM
2. THIS EXEC COMMAND IS USED INSTEAD OF THE @REWIND EXEC COMMAND, WHEN PROCESSING A MULTI-FILE LANDSAT MSS TAPE.
3. THE LANDSAT MULTI-FILE DATA TAPE MUST BE ASSIGNED TO 3.
4. THE ONLY VALID STRIP NUMBERS ARE 1, 2, 3, AND 4.
5. FOR MAXIMUM EFFICIENCY STRIPS SHOULD BE ACCESSED IN ASCENDING ORDER



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### @REWIND EXEC COMMAND =====

@REWIND <FILE NAME>

#### EXPLANATION -----

THIS EXEC COMMAND REWINDS THE SPECIFIED TAPE FILE TO THE LOADPOINT.

#### EXAMPLES -----

@REWIND 3.

#### RESTRICTIONS -----

1. THIS EXEC COMMAND MAY NOT BE USED WITHIN A PROGRAM

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### @RUN EXEC COMMAND

@RUN[,<PRIORITY>/NR] <RUNID>,<ACCOUNT>,<PROJECT>[,<MINUTES>,<PAGES>]

#### EXPLANATION

THIS EXEC COMMAND INITIATES A COMPUTER RUN. THE OPTIONAL INFORMATION IS REQUIRED FOR A BATCH RUN, BUT NOT FOR A DEMAND TERMINAL RUN.

#### EXAMPLES

@RUN ABXYZ1,9999-AAA-P,TF5-N12345 . DEMAND TERMINAL  
@RUN,U/NR ABXYZ1,9999-AAA-P,TF5-N12345,10,500 . BATCH

#### RESTRICTIONS

1. THIS EXEC COMMAND MAY NOT BE USED WITHIN A PROGRAM.
2. THE RUNID CANNOT EXCEED 6 ALPHANUMERIC CHARACTERS.
3. THE RUNID MUST BE UNIQUE.
4. SEE LOCAL STANDARDS FOR INFORMATION ON PRIORITY, RUNID, ACCOUNT, PROJECT.
5. THE @RUN STATEMENT MUST BE IMMEDIATELY FOLLOWED BY THESE THREE STATEMENTS:  
    @USE DAM,<EXTERNAL NAME OF DAM PROGRAM FILE>  
    @ASG,A DAM  
    @ADD DAM SETUP

DAM PACKAGE APPENDIX B: EXEC COMMAND DOCUMENTATION

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## DAM PACKAGE APPENDIX B: EXEC COMMAND DOCUMENTATION

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### @USE EXEC COMMAND

@USE <INTERNAL FILE NAME>,<COMPLETE EXTERNAL FILE NAME>

### EXPLANATION

THIS EXEC COMMAND EQUATES A SHORT INTERNAL 'NICKNAME' WITH THE COMPLETE EXTERNAL NAME USED FOR A FILE BY THE OPERATING SYSTEM

### EXAMPLES

@USE DAM.,TF5-L76758\*DAM.

### RESTRICTIONS

1. THIS EXEC COMMAND MAY NOT BE USED WITHIN A PROGRAM.

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### @XQT EXEC COMMAND

@XQT[,E] <PROGRAM NAME>

#### EXPLANATION

THIS EXEC COMMAND INITIATES EXECUTION OF THE NAMED PROGRAM  
THE E OPTION MEANS EXECUTE THE PROGRAM IF AND ONLY IF THE  
PREVIOUS EXECUTION TERMINATED IN ERROR.

#### EXAMPLES

@XQT,E PICTAB

#### RESTRICTIONS

1. THIS EXEC COMMAND MAY NOT BE USED WITHIN A PROGRAM.
2. IF THE @XQT STATEMENT FOR A PROGRAM IS IMMEDIATELY FOLLOWED  
BY THE @EOF EXEC COMMAND, THEN COMMANDS FROM THE PREVIOUS  
PROGRAM EXECUTION ARE RECALLED.

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### PROGRAMS

=====

THE DAM PACKAGE CURRENTLY CONTAINS 9 PROGRAMS FOR PROCESSING  
LANDSAT MSS DATA ON COMPUTER-COMPATIBLE TAPES: ,

PROGRAM -----	FUNCTION -----
ERTS-DUP	DUPLICATE COMPUTER-COMPATIBLE TAPE OF LANDSAT MSS DATA
ERTSIDC	PRINT SCENE IDENTIFICATION FOR LANDSAT MSS TAPE
PICTAB	PRODUCE DISPLAYS/TABULATIONS FROM RAW LANDSAT DATA
CONTROL	ADJUST/DIAGRAM CONTROL NETWORK USED TO REGISTER SCENE
CLASSIFY	GENERATE DENSITY FILE FROM RAW LANDSAT DATA
PRTDENS	DISPLAY PORTIONS OF DENSITY FILE(S)
PRTCLASS	PRODUCE LINE-PRINTER MAPS FROM DENSITY FILE(S)
PLTCLASS	PRODUCE PEN-PLOTTER MAPS FROM DENSITY FILE(S)
STATUS	MONITOR EXECUTION OF BATCH OR DEMAND RUNS

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### ERTS-DUP PROGRAM

=====

THIS EXEC COMMAND STREAM COPIES LANDSAT TAPE INN TO OUT, IGNORING FRAME COUNT ERRORS. IF UNRECOVERABLE PARITY ERRORS OCCUR IT REWINDS BOTH TAPES AND TRIES AGAIN. IF AND WHEN AN APPARENTLY SUCCESSFUL COPY IS MADE, THE COPY IS IDENTIFIED AND VERIFIED, AND THE RUN TERMINATED. THE RUNSTREAM BELOW SWAPS TAPE DRIVES AFTER 2 UNSUCCESSFUL ATTEMPTS, AND THEN TRIES TWICE AGAIN.

#### RUNSTREAM

-----

@RUN[,<PRIORITY>/NR] <RUNID>,<ACCOUNT>,<PROJECT>[,<MINUTES>,<PAGES>]

@USE DAM ,<EXTERNAL NAME OF PROGRAM FILE>

@ASG,A DAM.

@ADD DAM.SETUP

@ASG,BOTH INN.,U9,<ORIGINAL REEL>

@ASG,BOTH OUT.,U9,<BLANK REEL>

@ADD DAM.ERTS-DUP

@FREE,S OLDOUT.

@ASG,BOTH INN.,U9,<ORIGINAL REEL>

@MSG SWAPPING TAPES

@FREE,S OLDINN.

@ASG,BOTH OUT.,U9,<BLANK REEL>

@ADD DAM.ERTS-DUP

@FIN

#### NOTES

-----

1. ERTS-DUP, UNLIKE OTHER PROGRAMS, MUST ALWAYS BE IN A SEPARATE RUN, AS SHOWN ABOVE.

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ERTSIDC PROGRAM

=====

THIS PROGRAM PRINTS SCENE IDENTIFICATION INFORMATION FOR LANDSAT  
MSS DATA RECORDED ON A COMPUTER-COMPATIBLE TAPE.

RUNSTREAM

-----

...

@ASG,BOTH[Z] 3.,U9,<REEL NUMBER>

@REWIND 3.

@XQT[,E] ERTSIDC

{@FREE 3. }  
{@REWIND 3. }

...

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## PICTAB PROGRAM

=====

THIS PROGRAM PRODUCES DISPLAYS AND TABULATIONS FROM RAW LANDSAT  
MSS DATA RECORDED ON A COMPUTER-COMPATIBLE TAPE

RUNSTREAM

-----

...

@ASG,BOTH[Z] 3 ,U9,<REEL NUMBER>

@REWIND 3.

@XQT[,E] PICTAB

ALI[GN],SCA[N],<LINE>,<SAMPLE>,<EARTH COORDINATE SYSTEM>,  
<COORDINATE PAIR>  
CHAINNEL[,<MSS CHANNEL NUMBER>[, ... ]]  
CLE[AR][,<DIAGNOSTIC TYPE>]  
COPIES[,<NUMBER OF OUTPUT COPIES>]  
DIS[PLAY][,<LEGEND TYPE>]  
EXPL[AIN][,<PROGRAM OR COMMAND NAME>[, ... ]]  
HEA[DING][,<LINE NUMBER>,<HEADING TEXT>]  
NEW[S][,<PROGRAM NAME>[, ... ]]  
NEXT IF[,<OFF OR ON>,<MODE OPTION>  
OFF[,<MODE OPTION>[, ... ]]  
ON[,<MODE OPTION>[, ... ]]  
ORI[GIN][,<COORDINATE SYSTEM>,<COORDINATE PAIR>]  
PAGE[ ][,<MESSAGE>]  
PRI[INTER][,<LINES/IN>[,<COL/IN>[,<LINES/PG>[,<COL/PG>[,<DEVICE>]]]]]  
PRO[FILE]  
RADI[ANCE][,<MINIMUM>,<MAXIMUM>[, ... ]]  
REN[UMBER][,<NEW WINDOW NUMBER>  
SPA[CING][,<LINE INCREMENT>,<SAMPLE INCREMENT>]  
SYM[BOLS][,<SYMBOL>,<NUMBER>[,<SYMBOL>],<NUMBER>]]  
TAB[ULATE]  
TIC[K INTERVAL][,<PRIMARY COORDINATE SYSTEM>,<COORDINATE PAIR>,  
<SECONDARY COORDINATE SYSTEM>,<COORDINATE PAIR>]  
WIN[DOW][,<COORDINATE SYSTEM>[,<COORDINATE PAIR>[, ... ]]]  
ZON[E][,<UTM ZONE NUMBER>]

...

EXIT[ ]

{@FREE 3  
@REWIND 3.}

...

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### CONTROL PROGRAM

=====

THIS PROGRAM ADJUSTS AND/OR DIAGRAMS A NETWORK OF CONTROL POINTS FOR A LANDSAT MSS SCENE. PARAMETERS FROM THIS ADJUSTMENT ARE USED BY PICTAB, CLASSIFY, PRDENS, PRCLASS, AND PLTCLASS IN REGISTERING LANDSAT MSS DATA TO THE EARTH

#### RUNSTREAM

-----

...

@XQT[,E] CONTROL

{  
ADJUST  
ATTITUDE[,<DEGREES PITCH>,<DEGREES ROLL>]  
CLEAR[,<DIAGNOSTIC TYPE>]  
DIAGRAM[,<TYPE OF POINTS>]  
EXPLAIN[,<PROGRAM OR COMMAND NAME>[, ... ]]  
NEW[S][,<PROGRAM NAME>[, ... ]]  
NEXT IF[,<OFF OR ON>,<MODE OPTION>  
OFF[,<MODE OPTION>[, ... ]]  
ON[,<MODE OPTION>[, ... ]]  
PAGE[,<MESSAGE>]  
[POINT,]<POINT NUMBER>,[SCAN,]<LINE>,<SAMPLE>,  
    <EARTH COORDINATE SYSTEM>,<COORDINATE PAIR>[,<DESCRIPTION>]  
SCENE[,<LANDSAT SCENE NUMBER>,<SAMPLES/SCENE>]  
ZONE[,<UTM ZONE NUMBER>]  
}

...

EXIT

...

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#### NOTES

-----

1. THE CONTROL NETWORK, COMPOSED OF SCENE, ATTITUDE, AND POINT STATEMENTS, IS NORMALLY MAINTAINED IN A SYMBOLIC ELEMENT WITHIN A DISK FILE. THIS ELEMENT IS CREATED AND UPDATED USING THE @ED EXEC COMMAND. THE EXPLICIT USER RUNSTREAM FOR CONTROL IS THEN REDUCED TO THE FOLLOWING STATEMENTS.  
@ASG,A <NAME OF FILE CONTAINING ELEMENT> . BEFORE FIRST @XQT  
@XQT[,E] CONTROL  
@ADD <ELEMENT NAME>  
[ADJUST]  
[DIAGRAM]  
EXIT  
@FREE <NAME OF FILE CONTAINING ELEMENT> . AFTER LAST @XQT



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### CLASSIFY PROGRAM

=====

THIS PROGRAM GENERATES A DENSITY FILE FROM RAW LANDSAT  
MSS DATA RECORDED ON A COMPUTER-COMPATIBLE TAPE.

RUNSTREAM

-----

...

aASG,BOTH[Z] 3.,U9,<REEL NUMBER>

aREWIND 3.

axQT[,E] CLASSIFY

{  
  CHAINNEL[,<MSS CHANNEL NUMBER>[, . . ]]  
  CLE[AR][,<DIAGNOSTIC TYPE>]  
  COPI[ES][,<NUMBER OF OUTPUT COPIES>]  
  DETECT]  
  EXP[LAIN][,<PROGRAM OR COMMAND NAME>[, . . ]]  
  HEA[DING][,<LINE NUMBER>,<HEADING TEXT>]  
  NAM[E][,<NAME OF MATERIAL DETECTED>]  
  NEW[S][,<PROGRAM NAME>[, . . ]]  
  NEX[IT IF][,<OFF OR ON>,<MODE OPTION>  
  OFF[,<MODE OPTION>[, . . ]]  
  ON[,<MODE OPTION>[, . . ]]  
  ORI[GIN][,<COORDINATE SYSTEM>,<COORDINATE PAIR>]  
  PAGE[ ][,<MESSAGE>]  
  PRI[INTER][,<LINES/IN>[,<COL/IN>[,<LINES/PG>[,<COL/PG>[,<DEVICE>]]]]]  
  RADI[ANCE][,<MINIMUM>,<MAXIMUM>[, . . ]]  
  WIN[DOW][,<COORDINATE SYSTEM>[,<COORDINATE PAIR>[, . . ]]  
  ZON[E][,<UTM ZONE NUMBER>]  
}

...

EXIT

{  
  aFREE 3.  
  aREWIND 3.  
}

...

NOTES

-----

1. CONTROL MUST BE EXECUTED IN THE SAME RUN, PRIOR TO CLASSIFY.
2. TO PROCESS AN ENTIRE LANDSAT SCENE, EXECUTE CLASSIFY 4 TIMES,  
ONCE WITH EACH OF THE 4 COMPUTER-COMPATIBLE TAPES FOR A SCENE.

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### PRTDENS PROGRAM

=====

THIS PROGRAM PRODUCES LINE-PRINTER DISPLAYS FROM DENSITY FILES  
PREVIOUSLY CREATED BY THE CLASSIFY PROGRAM.

#### RUNSTREAM

-----

...

@XQT[,E] PRTDENS

{  
CLEAR[,,<DIAGNOSTIC TYPE>]  
COPIES[,,<NUMBER OF OUTPUT COPIES>]  
DENSITY[,,<MINIMUM>,<MAXIMUM>[,,<COUNTS/PIXEL>]]  
DISPLAY[,,<LEGEND TYPE>]  
EXPLAIN[,,<PROGRAM OR COMMAND NAME>[, . ]]  
HEADING[,,<LINE NUMBER>,<HEADING TEXT>]  
NEW[,,<PROGRAM NAME>[, . . ]]  
NEXT IF[,,<OFF OR ON>,<MODE OPTION>  
OFF[,,<MODE OPTION>[, . . ]]  
ON[,,<MODE OPTION>[, . . ]]  
ORIGIN[,,<COORDINATE SYSTEM>,<COORDINATE PAIR>]  
PAGE[,,<MESSAGE>]  
PRIINTER[,,<LINES/IN>[,,<COL/IN>[,,<LINES/PG>[,,<COL/PG>[,,<DEVICE>]]]]]  
RENUMBER[,,<NEW WINDOW NUMBER>  
SYMBOLS[,,<SYMBOL>,<NUMBER>[,,<SYMBOL>],<NUMBER>]]  
WINDOW[,,<COORDINATE SYSTEM>[,,<COORDINATE PAIR>[, . . ]]]  
ZONE[,,<UTM ZONE NUMBER>]  
}

...

EXIT]

...

#### NOTES

-----

1. CLASSIFY MUST BE EXECUTED IN THE SAME RUN, PRIOR TO PRTDENS.
2. UPON EXIT, PRTDENS DESTROYS THE DENSITY FILES UNLESS SAVE HAS BEEN SPECIFIED.
3. PRTDENS IS NORMALLY USED ONLY FOR DEBUGGING AND INSTRUCTIONAL PURPOSES.

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### PRTCLASS PROGRAM

=====

THIS PROGRAM PRODUCES LINE-PRINTER MAPS FROM DENSITY FILES  
PREVIOUSLY CREATED BY THE CLASSIFY PROGRAM.

#### RUNSTREAM

-----

...

@XQT[,E] PRTCLASS

{  
CLEAR[,,<DIAGNOSTIC TYPE>]  
COPIES[,,<NUMBER OF OUTPUT COPIES>]  
DENSITY[,,<MINIMUM>,<MAXIMUM>[,,<COUNTS/PIXEL>]]  
EXPLAIN[,,<PROGRAM OR COMMAND NAME>[,     ]]  
HEADING[,,<LINE NUMBER>,<HEADING TEXT>]  
MAP[,,<MAXIMUM NUMBER OF SUB-WINDOWS>]  
NEWS[,,<PROGRAM NAME>[, ... ]]  
NEXT IF[,,<OFF OR ON>,<MODE OPTION>  
OFF[,,<MODE OPTION>[, ... ]]  
ON[,,<MODE OPTION>[, ... ]]  
ORIGIN[,,<COORDINATE SYSTEM>,<COORDINATE PAIR>]  
PAGE[,,<MESSAGE>]  
PRIINTER[,,<LINES/IN>[,,<COL/IN>[,,<LINES/PG>[,,<COL/PG>[,,<DEVICE>]]]]]  
RENUMBER[,,<NEW WINDOW NUMBER>  
SCALE[,,<1/<DENOMINATOR OF REPRESENTATIVE FRACTION>]  
SYMBOLS[,,<SYMBOL>,<NUMBER>[,,<SYMBOL>[,,<NUMBER>]]  
TICK INTERVAL[,,<PRIMARY COORDINATE SYSTEM>,<COORDINATE PAIR>,  
                  <SECONDARY COORDINATE SYSTEM>,<COORDINATE PAIR>]  
WINDOW[,,<COORDINATE SYSTEM>[,,<COORDINATE PAIR>[,     ]]]  
ZONE[,,<UTM ZONE NUMBER>]  
}

...

EXIT

...

#### NOTES

-----

1. CLASSIFY MUST BE EXECUTED IN THE SAME RUN, PRIOR TO PRTCLASS.
2. UPON EXIT, PRTCLASS DESTROYS THE DENSITY FILES UNLESS SAVE HAS BEEN SPECIFIED.

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### PLTCLASS PROGRAM =====

THIS PROGRAM PRODUCES PEN-PLOTTER MAPS FROM DENSITY FILES  
PREVIOUSLY CREATED BY THE CLASSIFY PROGRAM.

RUNSTREAM  
-----

...

@XQT[,E] PLTCLASS

{  
CLE[AR][,<DIAGNOSTIC TYPE>]  
COPI[ES][,<NUMBER OF OUTPUT COPIES>]  
DEN[SITY][,<MINIMUM>,<MAXIMUM>[,<COUNTS/PIXEL>]]  
EXP[LAIN][,<PROGRAM OR COMMAND NAME>[, ... ]]  
HEA[DING][,<LINE NUMBER>,<HEADING TEXT>]  
MA[PI],<MAXIMUM NUMBER OF SUB-WINDOWS>  
NEW[S][,<PROGRAM NAME>[, ... ]]  
NEX[T IF],<OFF OR ON>,<MODE OPTION>  
OFF[,<MODE OPTION>[, ... ]]  
ON[,<MODE OPTION>[, ... ]]  
ORI[GIN][,<COORDINATE SYSTEM>,<COORDINATE PAIR>]  
PAG[E][,<MESSAGE>]  
PLO[TTER]  
REN[UMBER],<NEW WINDOW NUMBER>  
SCA[LE][,<1/<DENOMINATOR OF REPRESENTATIVE FRACTION>]  
TIC[K INTERVAL][,<PRIMARY COORDINATE SYSTEM>,<COORDINATE PAIR>,  
                  <SECONDARY COORDINATE SYSTEM>,<COORDINATE PAIR>]  
WIN[OW][,<COORDINATE SYSTEM>[,<COORDINATE PAIR>[, ... ]]]  
ZON[E][,<UTM ZONE NUMBER>]  
}

...

EXIT]

...

NOTES  
-----

1. CLASSIFY MUST BE EXECUTED IN THE SAME RUN, PRIOR TO PLTCLASS.
2. UPON EXIT, PLTCLASS DESTROYS THE DENSITY FILES UNLESS SAVE HAS BEEN SPECIFIED

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### STATUS PROGRAM =====

THIS PROGRAM ALLOWS A DEMAND TERMINAL USER TO MONITOR THE EXECUTION OF DAM PACKAGE PROGRAMS IN OTHER DEMAND OR BATCH RUNS.

RUNSTREAM

-----

...

@XQT[,E] STATUS

{ EXPLAIN[,<PROGRAM OR COMMAND NAME>[, ... ]]  
NEW[S],<PROGRAM NAME>[, .. ]]  
NEXT IF,<OFF OR ON>,<MODE OPTION>  
OFF[,<MODE OPTION>[, .. ]]  
ON[,<MODE OPTION>[, ... ]]  
<RUNID>[,<MAXIMUM NUMBER OF RUNS>]  
<INDEX> }

...

@EOF

...

NOTES

-----

1. A SLASH (/) IN A RUNID MATCHES WITH ANY CHARACTER.
2. <RUNID> PROVIDES SUMMARY INFORMATION (INCLUDING INDEX) ABOUT ALL RECENT RUNS MATCHING THE RUNID
3. <INDEX> PROVIDES DETAILED INFORMATION ABOUT ALL PROGRAMS EXECUTED IN THE INDEXED RUN.

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### COMMANDS

=====

THE GENERAL FORMS FOR ALL COMMANDS ARE LISTED BELOW. MOST PROGRAMS HAVE DEFAULT VALUES FOR MANY OF THESE COMMANDS. THESE DEFAULT VALUES DEPEND ON THE COMPUTER INSTALLATION, THE PROGRAM, AND WHETHER THE RUN IS BATCH OR DEMAND.

ADJ[UST]

AL[IGN], SCA[N], <LINE>, <SAMPLE>, <EARTH COORDINATE SYSTEM>, <COORDINATE PAIR>

ATT[ITUDE][, <DEGREES PITCH>, <DEGREES ROLL>]

CHAI[NNEL][, <MSS CHANNEL NUMBER>[, .. ]]

CLE[AR][, <DIAGNOSTIC TYPE>]

COPI[ES][, <NUMBER OF OUTPUT COPIES>]

CRO[SSTAB]

DEN[SITY][, <MINIMUM>, <MAXIMUM>]

DETE[CT]

DIA[GRAM][, <TYPE OF POINTS>]

DIS[PLAY][, <LEGEND TYPE>]

EXI[TT]

EXP[LAIN][, <PROGRAM OR COMMAND NAME>[, . . ]]

HEA[DING][, <LINE NUMBER>, <HEADING TEXT>]

MA[PI], <MAXIMUM NUMBER OF SUB-WINDOWS>]

NAM[E][, <NAME OF MATERIAL DETECTED>]

NEW[S][, <PROGRAM NAME>[, ... ]]

NEX[IT IF], <OFF OR ON>, <MODE OPTION>

OFF[, <MODE OPTION>[, .. ]]

ON[, <MODE OPTION>[, ... ]]

ORI[GIN][, <COORDINATE SYSTEM>, <COORDINATE PAIR>]

PAG[E][, <MESSAGE>]

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PLO[TTER]

[POINT,]<POINT NUMBER>,[SCAN,]<LINE>,<SAMPLE>,  
    <EARTH COORDINATE SYSTEM>,<COORDINATE PAIR>[,<DESCRIPTION>]

PRI[INTER][[,<LINES/IN>[,<COL/IN>[,<LINES/PG>[,<COL/PG>[,<DEVICE>]]]]]

PRO[FILE]

RAD[IANCE][[,<MINIMUM>,<MAXIMUM>[, . . ]]

REN[UMBER],<NEW WINDOW NUMBER>

SCALE][[,1/<DENOMINATOR OF REPRESENTATIVE FRACTION>]

SCE[ENE][[,<LANDSAT SCENE NUMBER>,<SAMPLES/SCENE>]

SPA[CING][[,<LINE INCREMENT>,<SAMPLE INCREMENT>]

SYM[BOLS][[,<SYMBOL>,<NUMBER>[[[,<SYMBOL>],<NUMBER>]]]

TAB[ULATE]

TIC[K INTERVAL][[,<PRIMARY COORDINATE SYSTEM>,<COORDINATE PAIR>,  
    <SECONDARY COORDINATE SYSTEM>,<COORDINATE PAIR>]

TOT[AL]

WIN[DOW][[,<COORDINATE SYSTEM>[,<COORDINATE PAIR>[, . . ]]]]

ZON[E][[,<UTM ZONE NUMBER>]

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### ADJUST COMMAND =====

ADJ[UST]

#### EXPLANATION -----

THIS COMMAND ADJUSTS THE CONTROL NETWORK

#### RESTRICTIONS -----

1. THE NETWORK WILL NOT BE ADJUSTED UNLESS VALID SCENE, ATTITUDE, AND POINT COMMANDS HAVE BEEN PREVIOUSLY ENTERED.

#### PROGRAMS -----

CONTROL

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### ALIGN COMMAND

=====

ALI[GN],SCA[N],<LINE>,<SAMPLE>,{DEG[REES],<LATITUDE>,<LONGITUDE>}  
                                  {KM,<EAST>,<NORTH>  
                                  {MET[RES],<EAST>,<NORTH>}

### EXPLANATION

-----

THIS COMMAND SPECIFIES A POINT WHOSE SCANNER COORDINATES AND EARTH COORDINATES ARE TO BE ALIGNED. THIS RE-ALIGNMENT SHIFTS THE RELATION BETWEEN SCANNER COORDINATES AND EARTH COORDINATES

### EXAMPLES

-----

ALIGN,SCAN,1317.819,DEGREES,30.2655,98.1380

### RESTRICTIONS

-----

1. THIS COMMAND DESTROYS THE CURRENT ORIGIN.

### PROGRAMS

-----

PICTAB

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### ATTITUDE COMMAND =====

ATT[ITUDE] [, <DEGREES PITCH>, <DEGREES ROLL>]

#### EXPLANATION -----

THIS COMMAND SPECIFIES THE ATTITUDE OF THE LANDSAT SPACECRAFT  
AT THE CENTER OF THE MSS SCENE

#### EXAMPLES -----

ATTITUDE, +1.43, -0.18

#### RESTRICTIONS -----

1. PITCH AND ROLL MUST BE SIGNED

#### PROGRAMS -----

CONTROL

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CHANNEL COMMAND  
=====

CHANNEL][,<MSS CHANNEL NUMBER>[, ... ]]

EXPLANATION  
-----

THIS COMMAND SPECIFIES THE MSS CHANNEL TO BE USED IN  
PROCESSING SUBSEQUENT WINDOWS.

EXAMPLES  
-----

CHAN,4

RESTRICTIONS  
-----

1. VALID CHANNELS ARE FROM -4 TO +4, INCLUSIVE.
2. AFTER CHANGING CHANNELS, THE RADIANCE COMMAND MUST BE USED TO  
SPECIFY RADIANCE LIMITS FOR THE NEW CHANNEL(S).
3. ONLY ONE CHANNEL MAY BE SPECIFIED FOR PICTAB (MULTI-CHANNEL  
CAPABILITY NOT YET IMPLEMENTED FOR PICTAB).

PROGRAMS  
-----

PICTAB  
CLASSIFY



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### CLEAR COMMAND =====

```
CLEAR[[, {WARNINGS } ]  
        {ERRORS  } ]
```

### EXPLANATION -----

THIS COMMAND CLEARS PREVIOUS WARNINGS OR FATAL ERRORS.

### RESTRICTIONS -----

1. WARNINGS ARE AUTOMATICALLY CLEARED AFTER EACH ATTEMPT TO PROCESS A WINDOW.
2. ERRORS SHOULD USUALLY ONLY BE CLEARED BY SYSTEMS PERSONNEL WHEN DEBUGGING PROGRAMS

### PROGRAMS -----

PICTAB  
CONTROL  
CLASSIFY  
PRTDENS  
PRTCLASS  
PLTCLASS

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COPIES COMMAND  
=====

COPIES[,<NUMBER OF OUTPUT COPIES>]

EXPLANATION  
-----

THIS COMMAND SPECIFIES THE NUMBER OF COPIES OF OUTPUT  
WINDOWS TO BE PRINTED AT ONSITE LINE PRINTERS.

EXAMPLES  
-----

COPIES,2

RESTRICTIONS  
-----

1. NOT MORE THAN 5 COPIES MAY BE SPECIFIED.

PROGRAMS  
-----

PICTAB  
CLASSIFY  
PRTDENS  
PRTCLASS  
PLTCLASS

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### CROSSTAB COMMAND =====

CRO[SSTAB]

#### EXPLANATION -----

NOT YET IMPLEMENTED

#### EXAMPLES -----

CROSS

#### RESTRICTIONS -----

1.

#### PROGRAMS -----

PICTAB

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### DENSITY COMMAND =====

DEN[SITY][ ,<MINIMUM>,<MAXIMUM>]

#### EXPLANATION -----

THIS COMMAND SPECIFIES THE DENSITY RANGE TO BE USED IN PROCESSING SUBSEQUENT WINDOWS.

#### EXAMPLES -----

DENSITY,0,18

#### RESTRICTIONS -----

1. VALID DENSITIES ARE FROM 0 TO 18, INCLUSIVE.

#### PROGRAMS -----

PRTDENS  
PRTCLASS  
PLTCLASS

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### DETECT COMMAND =====

DETECT]

### EXPLANATION -----

THIS COMMAND DETECTS ALL OCCURRENCES OF THE PREVIOUSLY SPECIFIED SPECTRAL LIMITS WITHIN THE CURRENT WINDOW AND STORES THIS INFORMATION IN A DENSITY FILE.

### EXAMPLES -----

DETECT

### RESTRICTIONS -----

1. THIS COMMAND MAY ONLY BE PERFORMED ONCE WITHIN EACH EXECUTION OF CLASSIFY.

### PROGRAMS -----

CLASSIFY

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### DIAGRAM COMMAND

=====

DIAGRAM[, {CONTROL POINTS}] 1  
                  {CHECK POINTS} }

### EXPLANATION

-----

THIS COMMAND DIAGRAMS THE CONTROL NETWORK.

### EXAMPLES

-----

DIAGRAM                   ,, DIAGRAM ALL POINTS

DIAGRAM,CONTROL       ,, DIAGRAM ONLY CONTROL POINTS

### RESTRICTIONS

-----

1. THE NETWORK WILL NOT BE DIAGRAMMED UNLESS VALID SCENE  
AND POINT COMMANDS HAVE BEEN PREVIOUSLY ENTERED

### PROGRAMS

-----

CONTROL

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

## DAM PACKAGE APPENDIX D: COMMAND DOCUMENTATION

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### DISPLAY COMMAND

=====

DIS[PLAY][, {SHO[RT LEGEND]}  
                  {LON[G LEGEND]} ]

### EXPLANATION

-----

THIS COMMAND DISPLAYS DATA FOR THE CURRENT WINDOW

### EXAMPLES

-----

DISPLAY           ,, DISPLAY WINDOW WITHOUT SYMBOL LEGEND

DISPLAY, LONG     ,, DISPLAY WINDOW WITH LONG SYMBOL LEGEND

### RESTRICTIONS

-----

1. SUB-WINDOW DISPLAYS MAY NOT BE SPECIFIED

### PROGRAMS

-----

PICTAB  
PRTDENS

## DAM PACKAGE APPENDIX D. COMMAND DOCUMENTATION

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### EXIT COMMAND =====

EXITT]

#### EXPLANATION -----

THIS COMMAND TERMINATES THE CURRENTLY EXECUTING PROGRAM.

#### RESTRICTIONS -----

1. ANY PROCESSING ALREADY REQUESTED, BUT NOT YET PERFORMED, IS COMPLETED BEFORE PROGRAM TERMINATION.

#### PROGRAMS -----

PICTAB  
CONTROL  
CLASSIFY  
PRTDENS  
PRTCLASS  
PLTCLASS



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### EXPLAIN COMMAND

=====

```
EXPLAIN[ , / LANDSAT          [ ,      ] ]
              DAM PACKAGE
              RULES
              FILES
              COORDINATES
              LOCAL STANDARDS
              EXEC COMMANDS
              <EXEC COMMAND>
              PROGRAMS
              <PROGRAM NAME>
              COMMANDS
              <COMMAND>
```

### EXPLANATION

-----

THIS COMMAND REQUESTS EXPLANATIONS FOR THE LANDSAT SATELLITES, THE DAM PACKAGE, ITS RULES, PROGRAMS AND COMMANDS

### EXAMPLES

-----

EXPLAIN,EXEC COMMANDS

EXPL,aEOF

EXP,PRTCLASS

EXP,HEADING

### RESTRICTIONS

-----

1. TO INTERRUPT AN EXPLANATION WHILE AT A TERMINAL, DEPRESS THE 'INTERRUPT' OR 'BREAK' KEY -- TO RESUME THE EXPLANATION, DEPRESS THE 'CARRIAGE RETURN' KEY.
2. ALL EXEC COMMANDS MUST START WITH THE CHARACTER a.
3. PROGRAM NAMES MUST BE GIVEN IN FULL.

### PROGRAMS

-----

ALL PROGRAMS

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### HEADING COMMAND =====

HEADING[*i*, {1} ,<HEADING TEXT>]  
                          {2}

#### EXPLANATION -----

THIS COMMAND SPECIFIES THE TEXT TO BE USED ON LINES 1 AND 2 OF  
SUBSEQUENT PAGE HEADINGS (LINE 0 IS SUPPLIED BY THE SYSTEM.)

#### EXAMPLES -----

HEADING,1,SOMERVILLE 7.5' QUADRANGLE    ,, 1ST LINE OF HEADING  
HEAD,2,                                    ,, 2ND LINE IS BLANK

#### RESTRICTIONS -----

1. MAXIMUM LENGTH OF HEADING TEXT IS 72 CHARACTERS.

#### PROGRAMS -----

PICTAB  
CLASSIFY  
PRTDENS  
PRTCLASS  
PLTCLASS

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### MAP COMMAND

=====

MAP[,<MAXIMUM NUMBER OF SUB-WINDOWS>]

### EXPLANATION

-----

THIS COMMAND GENERATES WINDOW OR SUB-WINDOW MAPS, USING CURRENT SPECIFICATIONS.

### EXAMPLES

-----

MAP           ,, MAP THE ENTIRE WINDOW

MAP,1         ,, MAP 1 SUB-WINDOW

MAP,4         ,, MAP UP TO 4 SUB-WINDOWS

### RESTRICTIONS

-----

1. SUB-WINDOWS ARE THE SIZE OF THE CURRENT PRIMARY TICK INTERVALS (SEE TICK COMMAND).
2. SUB-WINDOWS MAY NOT BE SPECIFIED IF THE PRIMARY TICK INTERVAL IS IN SCANNER COORDINATES.
3. SUB-WINDOW MAPS, IF SPECIFIED, ARE GENERATED UNTIL THE ENTIRE WINDOW IS COVERED, OR THE MAXIMUM NUMBER OF SUB-WINDOWS IS REACHED, WHICHEVER COMES FIRST.

### PROGRAMS

-----

PRTCLASS

PLTCLASS

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### NAME COMMAND =====

NAM(E)I[, <NAME OF MATERIAL DETECTED>]

### EXPLANATION -----

THIS COMMAND SPECIFIES THE NAME OF THE MATERIAL TO BE DETECTED

### RESTRICTIONS -----

1. MAXIMUM NAME LENGTH IS 24 CHARACTERS.

### PROGRAMS -----

CLASSIFY

## DAM PACKAGE APPENDIX D: COMMAND DOCUMENTATION

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### NEWS COMMAND =====

NEWSII, {DAM PACKAGE } [, ... ]  
          {<PROGRAM NAME>}

### EXPLANATION -----

THIS COMMAND REQUESTS NEWS OF RECENT REVISIONS TO THE DAM PACKAGE  
AND/OR ITS PROGRAMS

### EXAMPLES -----

NEWS,PICTAB

### RESTRICTIONS -----

1. PROGRAM NAMES MUST BE GIVEN IN FULL.

### PROGRAMS -----

ALL PROGRAMS

## DAM PACKAGE APPENDIX D: COMMAND DOCUMENTATION

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### NEXT COMMAND =====

NEXT IF1, {OFF} , {BAT[CH]  
          {ON }  {CHE[CKOUT]  
                  CON[FIRM]  
                  ECH[O]  
                  TRA[CE]}

### EXPLANATION -----

THIS COMMAND SPECIFIES THAT THE NEXT COMMAND IS TO BE PERFORMED  
IF AND ONLY IF THE SPECIFIED MODE OPTION IS SET AS SPECIFIED  
INTERVENING REMARKS AND/OR EXEC COMMANDS ARE NOT AFFECTED

### EXAMPLES -----

NEXT,ON,BATCH     ,, PERFORM NEXT COMMAND ONLY IF IN BATCH RUN

### RESTRICTIONS -----

1. THIS COMMAND APPLIES ONLY TO THE IMMEDIATELY FOLLOWING COMMAND.
2. THIS COMMAND IS NORMALLY USED ONLY BY SYSTEMS PERSONNEL.

### PROGRAMS -----

ALL PROGRAMS



## 1 7602

=====

EXPLANATION

TRACE      TRACE PROGRAM FLOW (FOR USE IN DEBUGGING SOFTWARE)

## RESTRICTIONS

- ## PROGRAMS

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### ON COMMAND =====

```
ON[, (BAT[CH]
      {CHE[CKOUT]
      {CON[FIRM]
      {DEF[AULT]
      {ECH[O]
      {TRA[CE]
      ) [, ... ]]
```

#### EXPLANATION -----

THIS COMMAND TURNS ON THE SPECIFIED MODE OPTIONS. MEANING OF THE MODE OPTIONS IS AS FOLLOWS:

BATCH	PROCESS AS BATCH
CHECKOUT	CHECK ALL COMMANDS BUT DO NOT PERFORM THEM
CONFIRM	CONFIRM COMMAND SPECIFICATIONS
DEFAULT	PROCESS DEFAULT COMMANDS (NOT AVAILABLE TO USER -- MAY NOT BE COMBINED WITH ANY OTHER OPTION)
ECHO	ECHO INPUT COMMAND STATEMENTS
TRACE	TRACE PROGRAM FLOW (FOR USE IN DEBUGGING SOFTWARE)

#### EXAMPLES -----

ON,CHECKOUT,ECHO

#### RESTRICTIONS -----

1. MODE OPTIONS NOT SPECIFIED REMAIN UNCHANGED.

#### PROGRAMS -----

ALL PROGRAMS

## DAM PACKAGE APPENDIX D. COMMAND DOCUMENTATION

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### ORIGIN COMMAND

=====

ORIGIN[, { SCAN[, <LINE>, <SAMPLE>  
          DEGREES[, <LATITUDE>, <LONGITUDE>  
          KM, <EAST>, <NORTH>  
          METRES[, <EAST>, <NORTH> } ]

### EXPLANATION

-----

THIS COMMAND SPECIFIES ORIGIN COORDINATES FOR SUBSEQUENT WINDOWS

### EXAMPLES

-----

ORIGIN,SCAN,1537,623     ,, SCAN LINE AND SAMPLE  
ORIG,KM,634,3930.25     ,, UTM EAST AND NORTH IN KILOMETRES  
ORI,DEG,29.6250,98 5     ,, LATITUDE & LONGITUDE IN DECIMAL DEGREES  
ORI,DEG,29:37:30,98:30    ,, SAME LATITUDE & LONGITUDE IN SEXAGENARY  
                          ,, <DEG>:<MIN>:<SEC> OR <DEG>/<MIN>/<SEC>

### RESTRICTIONS

-----

1. THE ORIGIN MUST NOT LIE MORE THAN 200 LINES OR SAMPLES OUTSIDE OF THE SCENE.
2. LATITUDE IS ASSUMED NORTH AND MUST BE POSITIVE.
3. LONGITUDE IS ASSUMED WEST AND MUST BE POSITIVE.
4. SCAN LINE AND SAMPLE MAY NOT CONTAIN DECIMAL POINTS.
5. WHEN SPECIFYING KM OR METRES, THE COMPLETE UNIVERSAL TRANSVERSE MERCATOR (UTM) EASTING AND NORTHING (NOT THE ABBREVIATED MILITARY GRID REFERENCE) MUST BE USED.
6. THE ZONE COMMAND MUST BE USED TO SPECIFY THE UTM ZONE.

### PROGRAMS

-----

PICTAB     PRTDENS     PLTCLASS  
CLASSIFY   PRTCLASS

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PAGE COMMAND  
=====

PAG[E][,<MESSAGE>]

EXPLANATION  
-----

THIS COMMAND SKIPS THE PRINTOUT TO THE TOP OF THE NEXT PAGE AND  
PRINTS THE SPECIFIED MESSAGE.

RESTRICTIONS  
-----

1. MAXIMUM MESSAGE LENGTH IS 24 CHARACTERS.

PROGRAMS  
-----

ALL PROGRAMS

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ORIGINAL PAGE IS POOR

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### POINT COMMAND

=====

```
[POINT,]<POINT NUMBER>[,SCAN][,<LINE>,<SAMPLE>],  
    {DEGREES][,<LATITUDE>,<LONGITUDE>]} [,<DESCRIPTION>]  
    {KME,<EAST>,<NORTH>]  
    {METRES][,<EAST>,<NORTH>]}
```

### EXPLANATION

-----

THIS COMMAND SPECIFIES BOTH THE SCANNER COORDINATES AND THE EARTH COORDINATES FOR A CONTROL OR CHECK POINT, OR EITHER SET OF COORDINATES FOR A QUERY POINT (THE PROGRAM COMPUTES THE MISSING COORDINATES FOR A QUERY POINT )

### EXAMPLES

-----

POINT,5,SCAN,1345,758,DEGREES,35 1362,94.8361

5,1345,758,DEG,35.1362,94 8361

### RESTRICTIONS

-----

1. VALID CONTROL POINT NUMBERS ARE FROM +1 TO +900, INCLUSIVE.
2. VALID CHECK POINT NUMBERS ARE FROM -1 TO -900, INCLUSIVE.
3. VALID QUERY POINT NUMBERS ARE FROM -1000 TO -9000, INCLUSIVE.
4. CONTROL POINTS ARE USED IN COMPUTING THE NETWORK ADJUSTMENT
5. CHECK POINTS ARE CHECKED AGAINST THE NETWORK ADJUSTMENT
6. QUERY POINTS MAY ONLY BE SPECIFIED AFTER A NETWORK HAS BEEN SUCCESSFULLY ADJUSTED.
7. SCAN LINE AND SAMPLE MAY NOT CONTAIN DECIMAL POINTS.

### PROGRAMS

-----

### CONTROL

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### PRINTER COMMAND.

=====

PRINTER]

[ ,<LINES/INCH>[ ,<COLUMNS/INCH>

[ ,<LINES/PAGE>[ ,<COLUMNS/PAGE>

[ ,<DEVICE-TYPE MNEMONIC>]]]]]

### EXPLANATION

-----

THIS COMMAND IS USED TO OVERRIDE THE NORMAL PRINTER CHARACTERISTICS AT A COMPUTER INSTALLATION

### EXAMPLES

-----

PRINTER,8,10

### RESTRICTIONS

-----

1. THIS COMMAND SHOULD BE USED RARELY, AND THEN ONLY BY PERSONNEL FAMILIAR WITH THE LOCAL SYSTEMS SOFTWARE.
2. THIS COMMAND MAY BE USED ONLY BEFORE THE FIRST WINDOW IN THE CURRENT PROGRAM HAS BEEN PROCESSED.

### PROGRAMS

-----

PICTAB  
CLASSIFY  
PRTDENS  
PRTCLASS



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### PROFILE COMMAND =====

PRO[FILE]

#### EXPLANATION -----

THIS COMMAND PROFILES DATA FOR THE CURRENT WINDOW.

#### EXAMPLES -----

PROFILE

#### RESTRICTIONS -----

1. NOT YET IMPLEMENTED

#### PROGRAMS -----

PICTAB

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### RADIANCE COMMAND

=====

RAD[IANCE][,<MINIMUM>,<MAXIMUM>[, ... ]]

### EXPLANATION

-----

THIS COMMAND SPECIFIES THE RADIANCE LIMITS TO BE USED IN  
PROCESSING SUBSEQUENT WINDOWS

### EXAMPLES

-----

CHANNEL,2  
RADIANCE,0,14                   ,, LIMITS 0 THRU 14 FOR CHANNEL 2

### RESTRICTIONS

-----

1. VALID RADIANCE VALUES ARE FROM 0 TO 255, INCLUSIVE. FOR ERTS-1 AND LANDSAT-2, VALUES OVER 127 REPRESENT FLAGS, NOT TRUE RADIANCE.
2. NEW RADIANCE LIMITS MUST BE SPECIFIED AFTER CHANGING CHANNELS.
3. IN PICTAB, THE EFFECT OF RADIANCE COMMANDS IS NOT CUMULATIVE, AND THE LIMITS IN A RADIANCE COMMAND REPLACE THOSE SPECIFIED IN THE PREVIOUS RADIANCE COMMAND.
4. IN CLASSIFY, THE EFFECT OF RADIANCE COMMANDS IS CUMULATIVE, AND THE LIMITS IN A RADIANCE COMMAND ARE COMBINED WITH THOSE SPECIFIED IN PREVIOUS RADIANCE COMMANDS. THE ONLY RESTRICTION IS THAT THE FIRST PAIR OF LIMITS (IE THOSE FOR THE FIRST CHANNEL) MUST NOT DUPLICATE OR OVERLAP WITH ANY SPECIFIED IN PREVIOUS RADIANCE COMMANDS

### PROGRAMS

-----

PICTAB  
CLASSIFY

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RENUMBER COMMAND  
=====

REN[UMBER], <NEW WINDOW NUMBER>

EXPLANATION  
-----

THIS COMMAND CHANGES THE CURRENT WINDOW NUMBER.

EXAMPLES  
-----

RENUMBER, 129

RESTRICTIONS  
-----

1. WINDOW NUMBERS BEGIN WITH 1 AND ARE AUTOMATICALLY INCREMENTED BY 1 UNLESS RENUMBERED
2. VALID WINDOW NUMBERS ARE FROM 1 TO 999.

PROGRAMS  
-----

PICTAB  
PRTDENS  
PRTCLASS  
PLTCLASS

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### SCALE COMMAND

=====

SCALE][,1/<DENOMINATOR OF REPRESENTATIVE FRACTION>]

### EXPLANATION

-----

THIS COMMAND SPECIFIES THE SCALE AT WHICH SUBSEQUENT WINDOWS ARE TO BE MAPPED.

### EXAMPLES

-----

SCALE,1/24000     ,, 1 INCH = 2000 FT

SCALE,1/63360     ,, 1 INCH = 1 MILE

### RESTRICTIONS

-----

1. MINIMUM VALID DENOMINATOR IS 20000.
2. MAXIMUM VALID DENOMINATOR IS 260000
3. COMMAS MUST NOT APPEAR WITHIN DENOMINATOR.
4. DENOMINATOR MUST NOT CONTAIN A DECIMAL POINT.

### PROGRAMS

-----

PRTCLASS  
PLTCLASS

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### SCENE COMMAND =====

SCE[NE][,<LANDSAT SCENE NUMBER>,<SAMPLES/SCENE>]

#### EXPLANATION -----

THIS COMMAND SPECIFIES THE LANDSAT SCENE NUMBER AND THE NUMBER OF SAMPLES PER SCENE.

#### EXAMPLES -----

SCENE,1037-16244,3240

#### RESTRICTIONS -----

1. SAMPLES/SCENE MUST BE IDENTICAL WITH THE VALUE RECORDED ON LANDSAT COMPUTER-COMPATIBLE TAPE AND PROVIDED BY PICTAB.

#### PROGRAMS -----

CONTROL

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### SPACING COMMAND =====

SPA[ACING][{,<LINE INCREMENT>,<SAMPLE INCREMENT>}]

#### EXPLANATION -----

THIS COMMAND SPECIFIES THE MSS LINE AND SAMPLE INCREMENTS TO BE USED FOR PROCESSING SUBSEQUENT WINDOWS.

#### EXAMPLES -----

SPACING,3,2           ,, EVERY THIRD LINE & EVERY SECOND SAMPLE

#### RESTRICTIONS -----

1. THE LINE AND SAMPLE INCREMENTS MUST NOT CONTAIN ANY DECIMAL POINTS.
2. VALID LINE AND SAMPLE INCREMENTS ARE BETWEEN 1 AND 10.

#### PROGRAMS -----

PICTAB

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### SYMBOLS COMMAND

=====

SYM[BOLS][[,<SYMBOL>,<NUMBER>[[,<SYMBOL>],<NUMBER>]]

### EXPLANATION

-----

THIS COMMAND SPECIFIES THE SYMBOLS TO BE USED FOR SUBSEQUENT LINE-PRINTER DISPLAYS AND/OR MAPS.

### EXAMPLES

-----

SYMBOLS,A,10	.. 'A'	= 010
SYM,B,11,14	.. 'B'	= 011 TO 014
SYM,C,15,19	.. 'C'	= 015 TO 019
SYM,XOAV,20,29	.. 'XOAV'	= 020 TO 029 (OVERPRINT)
SYM, ,30,255	.. ' '	= 030 TO 255
SYM,0,10,3,13	.. '0'	= 010
	.. '1'	= 011
	.. '2'	= 012
	.. '3'	= 013

### RESTRICTIONS

-----

1. ANY SINGLE CHARACTER (INCLUDING BLANK) MAY BE SPECIFIED AS A SYMBOL EXCEPT ASTERISK (\*), PLUS (+), COLON (:), OR COMMA (,).
2. ANY STRING OF 2 TO 4 CHARACTERS (EXCLUDING COMMA) MAY BE SPECIFIED AS A SYMBOL WHEN MORE THAN ONE CHARACTER IS SPECIFIED, THEY WILL BE OVERPRINTED.
3. THE EFFECT OF SYMBOL COMMANDS, UNLESS THE NUMBERS DUPLICATE OR OVERLAP WITH NUMBERS SPECIFIED IN PREVIOUS SYMBOL COMMANDS, IS CUMULATIVE.

### PROGRAMS

-----

PICTAB      PRTCLASS  
PRTDENS

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TABULATE COMMAND  
=====

TAB[ULATE]

EXPLANATION  
-----

NOT YET IMPLEMENTED

EXAMPLES  
-----

TABULATE

RESTRICTIONS  
-----

1.

PROGRAMS  
-----

PICTAB

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### TICK COMMAND

TICK INTERVAL],

$$\left\{ \begin{array}{l} \text{SCA[N], <LINES>, <SAMPLES>} \\ \text{DEG[REES], <LATITUDE>, <LONGITUDE>} \\ \text{MIN[UTES], <LATITUDE>, <LONGITUDE>} \\ \text{KM, <EAST>, <NORTH>} \\ \text{MET[RES], <EAST>, <NORTH>} \end{array} \right\} ,$$
$$\left\{ \begin{array}{l} \text{SCA[N], <LINES>, <SAMPLES>} \\ \text{DEG[REES], <LATITUDE>, <LONGITUDE>} \\ \text{MIN[UTES], <LATITUDE>, <LONGITUDE>} \\ \text{KM, <EAST>, <NORTH>} \\ \text{MET[RES], <EAST>, <NORTH>} \end{array} \right\} 1$$

### EXPLANATION

THIS COMMAND SPECIFIES FIRST THE PRIMARY AND THEN THE SECONDARY TICK INTERVALS FOR SUBSEQUENT WINDOWS. PRIMARY TICKS ARE ALWAYS PRINTED. SECONDARY TICKS ARE PRINTED ONLY WHEN THEY DO NOT CONFLICT WITH OTHER SYMBOLS.

### EXAMPLES

TICK, DEG, 1, 1, MIN, 7.5, 7.5

TICK, MIN, 3.75, 7.5, KM, 1, 1

TICK, MIN, 3.45, 7:30, KM, 1, 1

### RESTRICTIONS

1. BOTH PRIMARY AND SECONDARY TICKS MUST BE SPECIFIED.
2. THIS COMMAND MAY SPAN UP TO 2 CARDS
3. LATITUDE AND LONGITUDE MAY BE IN DECIMAL OR SEXAGENARY NOTATION

### PROGRAMS

PICTAB    PLTCLASS  
PRTCLASS

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TOTAL COMMAND  
=====

TOTIAL][,<WINDOW NUMBER>[, . ]]

EXPLANATION  
-----

NOT YET IMPLEMENTED

EXAMPLES  
-----

TOTAL,19,20,21,33

RESTRICTIONS  
-----

1.

PROGRAMS  
-----

PICTAB

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### WINDOW COMMAND

=====

WINDOW[[,

$$\left\{ \begin{array}{l} \text{SCAN}[\text{N}][, \langle \text{LINE} \rangle, \langle \text{SAMPLE} \rangle[, \dots ] ] \\ \text{DEG}[\text{REES}][, \langle \text{LATITUDE} \rangle, \langle \text{LONGITUDE} \rangle[, \dots ] ] \\ \text{MINUTES}[\text{I}][, \langle \text{LATITUDE} \rangle, \langle \text{LONGITUDE} \rangle[, \dots ] ] \\ \text{KMI}[, \langle \text{EAST} \rangle, \langle \text{NORTH} \rangle[, \dots ] ] \\ \text{MET}[\text{RES}][, \langle \text{EAST} \rangle, \langle \text{NORTH} \rangle[, \dots ] ] \\ \text{PRINT}[\text{I}][, \langle \text{LINE} \rangle, \langle \text{COLUMN} \rangle[, \dots ] ] \\ \text{CM}[, \langle \text{DOWN} \rangle, \langle \text{RIGHT} \rangle[, \dots ] ] \\ \text{INC}[\text{HES}][, \langle \text{DOWN} \rangle, \langle \text{RIGHT} \rangle[, \dots ] ] \end{array} \right\} ]$$

### EXPLANATION

-----

THIS COMMAND SPECIFIES THE ORIGIN-RELATIVE COORDINATES OF THE VERTICES DEFINING A WINDOW. WINDOWS ARE DEFINED AS FOLLOWS

ONE VERTEX DEFINES THE RECTANGLE WITH DIAGONAL STRETCHING FROM ORIGIN TO VERTEX.

TWO VERTICES DEFINE THE RECTANGLE WITH DIAGONAL STRETCHING BETWEEN THE VERTICES.

THREE OR MORE VERTICES DEFINE A POLYGON BY ITS CONSECUTIVE CORNERS IN COUNTER-CLOCKWISE ORDER.

### EXAMPLES

-----

ORIGIN,SCAN,100,0

WINDOW,SCAN,600,120,800,230   ,, RECTANGLE FROM SCAN LINE 700 TO 900  
                                  ,,    AND SAMPLE 120 TO 230

### RESTRICTIONS

-----

1. THIS COMMAND MAY SPAN UP TO 10 CARDS.
2. LATITUDE AND LONGITUDE MAY BE IN DECIMAL OR SEXAGENARY NOTATION.

### PROGRAMS

-----

PICTAB	PRTCLASS	PRTDENS
CLASSIFY	PLTCLASS	



## DAM PACKAGE APPENDIX D. COMMAND DOCUMENTATION

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### ZONE COMMAND

=====

ZONE[E][,<UTM ZONE NUMBER>]

### EXPLANATION

-----

THIS COMMAND SPECIFIES THE UNIVERSAL TRANSVERSE MERCATOR (UTM) ZONE NUMBER TO BE USED IN SUBSEQUENT PROCESSING OF UTM COORDINATES.

### EXAMPLES

-----

ZONE,18

### RESTRICTIONS

-----

1. ONLY STANDARD UTM PROJECTION ZONES (NOT MILITARY GRID REFERENCE 'ZONES') MAY BE USED.
2. THIS COMMAND DESTROYS THE CURRENT ORIGIN.

### PROGRAMS

-----

PICTAB  
CONTROL  
CLASSIFY  
PRTCLASS  
PLTCLASS

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DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

(7605)

ERTS-DUP.....E-4  
ERTS-DUP(JSC)..... E-5  
.....  
.....  
PICTAB..... ..E-8  
PICTAB(MULTI-FILE)..E-9  
.....  
CONTROL ..... E-11  
.....  
CLASSIFY/PRTCLASS...E-13  
.. .....  
STATUS.....E-15.

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DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

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ERTS-DUP SAMPLE RUN  
=====

@RUN,U/NR RJT17C,9999-DAM-P,TF5-N12345,25,25  
@USE DAM ,TF5-L76758\*DAM.  
@ASG,A DAM.  
@ADD DAM.SETUP  
@ASG,BOTH INN.,U9,RJT17C  
@ASG,BOTH OUT.,U9,XSAVE  
@ADD DAM.ERTS-DUP  
@FREE,S OLDOUT.  
@ASG,BOTH INN.,U9,RJT17C  
@MSG SWAPPING TAPES  
@FREE,S OLDINN.  
@ASG,BOTH OUT.,U9,XSAVE  
@ADD DAM.ERTS-DUP  
@FIN

JONES,RJ

DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

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ERTS-DUP SAMPLE RUN (JSC ONLY)  
=====

@RUN,U/NR RJT17C,9999-DAM-P,TF5-N12345,25,25  
@USE DAM.,TF5-L76758\*DAM.  
@ASG,A DAM.  
@ADD DAM.SETUP  
@ASG,BOTH/F INN.,U9,RJT17C  
@ASG,BOTH/S OUT ,U9,XSAVE,99,ERTS-1234-56789-1  
@ADD DAM.ERTS-DUP  
@FREE,S OLDOUT.  
@ASG,BOTH/F INN.,U9,RJT17C  
@MSG SWAPPING TAPES  
@FREE,S OLDINN.  
@ASG,BOTH/S OUT.,U9,XSAVE,99,ERTS-1234-56789-1  
@ADD DAM.ERTS-DUP  
@FIN

JONES,RJ

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DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

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DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

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DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

1 7605

PICTAB SAMPLE RUN  
=====

```
@RUN,U/NR RJT17A,9999-DAM-P,TF5-N12345,8,80      JONES,RJ
@USE DAM.,TF5-L76758*DAM.
@ASG,A DAM.
@ADD DAM.SETUP
@ASG,BOTH 3.,U9,RJT17A      . SCENE 1092-16305, STRIP 2
@REWIND 3
@XQT PICTAB
SPACING,1,1
WINDOW,PRINT,-200,-60,+200,+60  .. 401 LINES X 121 COLUMNS,
                                ..   CENTERED ON ORIGIN
*ALL OTHER DEFAULT COMMANDS ARE ACCEPTABLE
ORIGIN,SCAN,480,1345  ..,DISPLAY
ORIGIN,SCAN,646,947  ..,DISPLAY
ORIGIN,SCAN,1094,2052  ..,DISPLAY
ORIGIN,SCAN,1163,1509  ..,DISPLAY
ORIGIN,SCAN,1441,896  ..,DISPLAY
ORIGIN,SCAN,1447,1464  ..,DISPLAY
ORIGIN,SCAN,1603,1710  ..,DISPLAY
EXIT
@REWIND 3.
@XQT,E PICTAB      . REPEAT IF PREVIOUS EXECUTION ERROR TERMINATED
@EOF
@FREE 3.
@ASG,BOTH 3.,U9,RJT17B      . SCENE 1092-16305, STRIP 3
@REWIND 3.
@XQT PICTAB
@EOF
@FREE 3.
@FIN
```

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DAM PACKAGE APPENDIX E SAMPLE RUNSTREAMS

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PICTAB SAMPLE RUN (MULTI-FILE TAPE)  
=====

```
@RUN,U/NR RJT17P,9999-DAM-P,TF5-N12345,8,80 JONES,RJ
@USE DAM.,TF5-L76758*DAM.
@ASG,A DAM
@ADD DAM SETUP
@ASG,BOTV 3 ,U9,RJT17P SCENE 1092-16305, STRIPS 1,2,3,4
@LOCATE 3 ,2
@XQT PICTAB PROCESS WINDOWS THAT LIE WITHIN STRIP 2
SPACING,1,1
WINDOW,PRINT,-200,-60,+200,+60 .. 401 LINES X 121 COLUMNS,
.. CENTERED ON ORIGIN
*ALL OTHER DEFAULT COMMANDS ARE ACCEPTABLE
ORIGIN,SCAN,480,1345 ...DISPLAY
ORIGIN,SCAN,646,947 ...DISPLAY
ORIGIN,SCAN,1094,2052 ...DISPLAY
ORIGIN,SCAN,1163,1509 ...DISPLAY
ORIGIN,SCAN,1441,896 ...DISPLAY
ORIGIN,SCAN,1447,1464 ...DISPLAY
ORIGIN,SCAN,1603,1710 ...DISPLAY
EXIT
@LOCATE,E 3.,2 LOCATE AND
@XQT,E PICTAB . REPEAT IF PREVIOUS EXECUTION ERROR TERMINATED
@EOF
@LOCATE 3 ,3
@XQT PICTAB PROCESS WINDOWS THAT LIE WITHIN STRIP 3
@EOF
@FREE 3.
@FIN
```

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DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

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DAM PACKAGE APPENDIX E· SAMPLE RUNSTREAMS

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CONTROL SAMPLE RUN  
=====

@RUN,U/NR RJT17F,9999-DAM-P,TF5-N12345,2,10  
@USE DAM ,TF5-L76758\*DAM.  
@ASG,A DAM.  
@ADD DAM.SETUP  
@ASG,A USERFILE.  
@COPY,S DAM.1092-16305,USERFILE.1092-16305  
@ED,CPU USERFILE.1092-16305  
LOCATE \*LATITUDE  
DELETE  
LOCATE -6,  
CHANGE /-6/6/  
CHANGE /32.5819/30.5819/  
LOCATE -9,  
CHANGE /-9/9/  
CHANGE /37.1644/30.1644/  
EXIT  
@XQT CONTROL  
@ADD USERFILE.1092-16305  
ADJUST  
DIAGRAM  
EXIT  
@FREE USERFILE  
@FIN

JONES,RJ

SEE APPENDIX F

DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

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# DAM PACKAGE APPENDIX E· SAMPLE RUNSTREAMS

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## CLASSIFY/PRTCLASS SAMPLE RUN

=====

```

@RUN,U/NR RJT17M,9999-DAM-P,TF5-N12345,20,300
@USE DAM ,TF5-L76758*DAM
@ASG,A DAM.
@ADD DAM.SETUP
@ASG,A USERFILE.
@XQT CONTROL
@ADD USERFILE.1092-16305 . NOTE CREATED IN RUN ON PREVIOUS PAGE
ADJUST ,,, EXIT
@FREE USERFILE
@ASG,BOTH 3.,U9,RJT17A
@REWIND 3
@XQT CLASSIFY
COPIES,2
@ADD DAM WATER-LIM
ORIGIN,SCAN, 1 LINE, 1 SAMPLE
WINDOW,SCAN, 2340 LINE, 3240 SAMPLE , , EVERYTHING ON THIS TAPE
DETECT ,,, EXIT
@FREE 3.
@ASG,BOTH 3.,U9,RJT17B
@REWIND 3.
@XQT CLASSIFY
@EOF . RECALL COMMANDS FROM LAST EXECUTION
@FREE 3
@XQT PRTCLASS
COPIES,2
HEADING,1,SAMPLE MAPS FROM THE DAM PACKAGE
SCALE,1/24000
TICK,MINUTES,7.5,7 5,MINUTES,2.5,2.5 , , PRIMARY 7.5 X 7.5 MINUTES &
, , SECONDARY 2 5 X 2 5 MINUTES
WINDOW,MINUTES,7 5,7 5 , , EXTENDS FROM ORIGIN 7.5 MINUTES NORTH & WEST
ORIGIN,DEG,30 15,97.37.5 ,,,HEADING,2,AUSTIN E 7 5' QUAD ,,,MAP
ORIGIN,DEG,30:15,97 45 ,,,HEADING,2,AUSTIN W 7 5' QUAD ,,,MAP
SCALE,1/62500
TICK,MINUTES,15,15,MINUTES,7 5,7.5 , , PRIMARY 15 X 15 MINUTES &
, , SECONDARY 7 5 X 7.5 MINUTES
WINDOW,MINUTES,15,15 , , EXTENDS FROM ORIGIN 15 MINUTES NORTH & WEST
ORIGIN,DEG,30.00,97.00 ,,,HEADING,2,SMITHVILLE 15' QUAD ,,,MAP
ORIGIN,DEG,30 00,97.15 ,,,HEADING,2,BASTROP 15' QUAD ,,,MAP
ORIGIN,DEG,30.00,97 30 ,,,HEADING,2,MONTOPOLIS 15' QUAD ,,,MAP
ORIGIN,DEG,30.00,97.45 ,,,HEADING,2,BUDA 15' QUAD ,,,MAP
ORIGIN,DEG,30.15,97.00 ,,,HEADING,2,LEXINGTON 15' QUAD ,,,MAP
ORIGIN,DEG,30:15,97.15 ,,,HEADING,2,ELGIN 15' QUAD ,,,MAP
ORIGIN,DEG,30.15,97 30 ,,,HEADING,2,PFLUGERVILLE 15' QUAD ,,,MAP
ORIGIN,DEG,30.15,97:45 ,,,HEADING,2,LAKE TRAVIS 15' QUAD ,,,MAP
WINDOW,MIN,30,60 ,,,ORIG,DEG,30,97 , , UNION OF PREVIOUS 8 WINDOWS
HEADING,2, 15' QUAD ,,,MAP,8 , , EASY WAY TO GENERATE SAME 8 MAPS
SCALE,1/125000 ,,,HEADING,2,AUSTIN TX VICINITY ,,,MAP
EXIT
@FIN

```

DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

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# DAM PACKAGE APPENDIX E: SAMPLE RUNSTREAMS

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## STATUS SAMPLE RUN =====

```
@RUN RJT17S,9999-DAM-P,TF5-N12345      . DEMAND TERMINAL RUN
@USE DAM.,TF5-L76758*DAM.
@ASG,A DAM.
@ADD DAM.SETUP
@XQT STATUS . NOTE NORMALLY EXECUTED ONLY IN DEMAND MODE
RJT17M      ., RUNID OF RUN WHOSE SUMMARY STATUS & INDEX ARE DESIRED
148         ., INDEX OF RUN WHOSE DETAILED STATUS IS DESIRED
//T17/      ., SLASH (/) MATCHES WITH ANY CHARACTER
EXIT
@FIN
```

DAM PACKAGE APPENDIX E • SAMPLE RUNSTREAMS

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DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

(7605)

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DAM.1132-16512	.....	F-9
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DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

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DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1037-16244 (29 AUG 72)

SCENE,1037-16244,3240

ATTITUDE,+0 12,-0 73

1, SCAN,47,505, DEG,31 1593,95 7352, AUSTONIO 7.5'--BEND IN TRINITY R  
28, SCAN,523,46, DEG,30 8635,96 0969, IOLA 7.5'--SOUTH ZULCH RESERVOIR  
43, SCAN,1194,692, DEG,30 3316,95 854, PLANTERSVILLE 7 5'--L. BY ROSE HILL  
87, SCAN,1942,42, DEG,29 8625,96 3777, BERNARDO 7 5'--LAKE  
17, SCAN,757,1397, DEG,30 5747,95 3532, MAYNARD 7 5'--PURSLEY LAKE  
32, SCAN,1405,1168, DEG,30 1397,95 6185, OKLAHOMA 7 5'--NEIDIGK LAKE  
82, SCAN,1673,874, DEG,29 978,95 8429, BROOKSHIRE 15'--WARREN LAKE  
87, SCAN,2178,1136, DEG,29 5986,95 7905, RICHMOND 15'--BRAZOS RIVER  
14, SCAN,671,1908, DEG,30 588,95 0358, CAMILLA 7 5'--BEND IN TRINITY R  
49, SCAN,1863,1844, DEG,29 7545,95 3152, SETTGAST 7 5'--BUFFALO BAYOU  
70, SCAN,1826,2259, DEG,29 7413,95 0669, LA PORTE 7 5'--SHIP CHANNEL  
78, SCAN,2071,2335, DEG,29 5621,95 0735, LEAGUE CITY 7 5'--MUD LAKE  
79, SCAN,2010,2360, DEG,29 6025,95 046, LEAGUE CITY 7 5'--TAYLOR BAYOU  
10, SCAN,200,3215, DEG,30 7959,94 1798, CURTIS 15'--DAM B RESERVOIR  
16, SCAN,395,2923, DEG,30 6859,94 3882, WARREN 15'--MASTERTON LAKE  
23, SCAN,1389,2542, DEG,30 022,94 814, LIBERTY 15'--DUNCAN LAKE  
66, SCAN,1844,3214, DEG,29 639,94 5248, OYSTER BAYOU 7 5'--RESERVOIR  
87, SCAN,2263,2931, DEG,29 3713,94 7709, GALVESTON 7 5'--HORSESHOE LAKE

\*ENTER ADJUST OR DIAGRAM

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DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*UTM CONTROL NET FOR ERTS SCENE 1037-16244 (29 AUG 72)

SCENE,1037-16244,3240

ATTITUDE,+0.12,-0.73

ZONE,14,,UTM ZONE FOR THE FOLLOWING 2 POINTS ONLY

28, SCAN,523,46, KM,777 60,3417.90, IOLA 7 5'--SOUTH ZULCH RESERVOIR

87, SCAN,1942,42, KM,753.31,3306.26, BERNARDO 7.5'--LAKE

ZONE,15,,UTM ZONE FOR ALL THE REMAINING POINTS IN THE NET

1, SCAN,47,505, KM,239.26,3450 29, AUSTONIO 7.5'--BEND IN TRINITY R

43, SCAN,1194,692, KM,225 60,3358.80, PLANTERSVILLE 7.5'--L. BY ROSE HILL

17, SCAN,757,1397, KM,274 32,3384.64, MAYNARD 7 5'--PURSLEY LAKE

32, SCAN,1405,1168, KM,247 76,3336 98, OKLAHOMA 7.5'--NEIDIGK LAKE

82, SCAN,1673,874, KM,225.69,3319 57, BROOKSHIRE 15'--WARREN LAKE

87, SCAN,2178,1136, KM,229 73,3277.38, RICHMOND 15'--BRAZOS RIVER

14, SCAN,671,1908, KM,304 80,3385 53, CAMILLA 7 5'--BEND IN TRINITY R.

49, SCAN,1863,1844, KM,276.12,3293 65, SETTCAST 7 5'--BUFFALO BAYOU

70, SCAN,1826,2259, KM,300.11,3291 73, LA PORTE 7.5'--SHIP CHANNEL

78, SCAN,2071,2335, KM,299 12,3271.88, LEAGUE CITY 7.5'--MUD LAKE

79, SCAN,2010,2360, KM,301 86,3276 31, LEAGUE CITY 7 5'--TAYLOR BAYOU

10, SCAN,200,3215, KM,387.12,3407 39, CURTIS 15'--DAM B RESERVOIR

16, SCAN,395,2923, KM,367 03,3395.43, WARREN 15'--MASTERSON LAKE

23, SCAN,1389,2542, KM,325 06,3322 43, LIBERTY 15'--DUNCAN LAKE

66, SCAN,1844,3214, KM,352 40,3279 58, OYSTER BAYOU 7.5'--RESERVOIR

87, SCAN,2263,2931, KM,328 12,3250 25, GALVESTON 7 5'--HORSESHOE LAKE

\*ENTER ADJUST OR DIAGRAM

DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NETWORK FOR ERTS SCENE 1073-16244, STRIP 3 (4 OCT 72)

SCENE,1073-16244,3240

ATTITUDE,+0.27,-0.55

1, SCAN,741,1788, DEG,30 5873,95.0359  
2, SCAN,1445,1837, DEG,30 0883,95.1497  
3, SCAN,1546,1678, DEG,30.0321,95.2631  
4, SCAN,1901,1927, DEG,29.7594,95 1886  
5, SCAN,2153,2291, DEG,29 548,95 027  
6, SCAN,1092,2319, DEG,30 2903,94.7945

DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1092-16305 (23 OCT 72)

SCENE,1092-16305,3240

ATTITUDE,+0.04,-0.52

\*LATITUDE SHOULD BE 30.5819 FOR PT -6 AND 30.1644 FOR PT -9

1, SCAN,2243,516, DEG,29 4956,97.624, COST SPILLWAY

5, SCAN,1315,502, DEG,30 1506,97.4534, BASTROP RIVER BEND

-6, SCAN,646,947, DEG,32 5819,97.059, ALCOA LAKE LARGE LAKE

7, SCAN,1441,896, DEG,30.0263,97 2457, SMITHVILLE RIVER BEND

8, SCAN,480,1345, DEG,30 6625,96.7892, MILANO SMALL LAKE

-9, SCAN,1163,1509, DEG,37 1644,96 8276, LEDBETTER SMALL POND

10, SCAN,1447,1464, DEG,29.9684,96 9102, LA GRANGE W. RIVER BEND

11, SCAN,1603,1710, DEG,29.8355,96 7956, AMMANSVILLE RIVER BEND

14, SCAN,1094,2052, DEG,30 1617,96 4921, BRENHAM SMALL LAKE

16, SCAN,44,2724, DEG,30.8374,95 8827, BEDIAS LAKE DONNA V

19, SCAN,1851,2567, DEG,29.5795,96 342, EAGLE LAKE EAGLE LAKE

\*ENTER ADJUST OR DIAGRAM



DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1092-16305, STRIP 3 (23 OCT 72)

SCENE,1092-16305,3240

ATTITUDE,+0.04,-0.52

1, SCAN,1089,2050, DEG,30 16549,96 49212  
2, SCAN,900,1930, DEG,30 30955,96 52526  
3, SCAN,865,1878, DEG,30 34021,96 54903  
4, SCAN,822,2066, DEG,30 35153,96 42894  
5, SCAN,1717,2201, DEG,29 7085,96 53002  
6, SCAN,1755,2225, DEG,29 68024,96.52379  
7, SCAN,1769,2265, DEG,29 66579,96 50390  
8, SCAN,668,2245, DEG,30 44251,96.29373  
9, SCAN,735,2248, DEG,30.39592,96 30438  
10, SCAN,1720,2249, DEG,29 70148,96 50208  
11, SCAN,1999,2078, DEG,29 52066,96 65836  
12, SCAN,2007,1958, DEG,29.52777,96 73030  
13, SCAN,1720,2192, DEG,29.70681,96 53615

DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

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DAM PACKAGE APPENDIX F• SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1132-16512 (02 DEC 72)

SCENE,1132-16512,3240

ATTITUDE,+0.05,-0 37

-1, SCAN,597,685, DEG,40 7083,99 8725

4, SCAN,505,368, DEG,40.792,100.0671

5, SCAN,519,383, DEG,40.7806,100 0605

29, SCAN,1888,217, DEG,39.8428,100.4873

2, SCAN,561,965, DEG,40 6913,99.6817

-11, SCAN,88,981, DEG,40.2617,99.8084

3, SCAN,321,2240, DEG,40 7223,98 7667

14, SCAN,173,2640, DEG,40 781,98.4626

40, SCAN,137,2729, DEG,40.7964,98.3946

38, SCAN,243,2442, DEG,40 7544,98.6124

41, SCAN,1925,3057, DEG,39 5239,98.6264

DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1191-15381

SCENE,1191-15381,3240

ATTITUDE,+0.15,-0 51

1, SCAN,149,648, DEG,35 421,82 925

7, SCAN,1180,60, DEG,34 752,83.503

10, SCAN,2237,26, DEG,34 0116,83.743

\*14, SCAN,574,1205, DEG,35 0600,82.6756,, (REMARK CARD)

..17, SCAN,1564,1312, DEG,34.3556,82.821,, (BLANK CARD -- IGNORED)

23, SCAN,382,2196, DEG,35.108,82.0156

31, SCAN,1313,2232, DEG,34 4544,82 1984

30, SCAN,2126,1926, DEG,33 9138,82 5638

33, SCAN,525,3150, DEG,34.9142,81.469

37, SCAN,2264,3192, DEG,33.692,81 829

\*LAT/LON FOR THIS NET MEASURED FROM 1:250000 SCALE MAPS

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DAM PACKAGE APPENDIX F. SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1265-15494 (04 APR 73)

SCENE,1265-15494,3240

ATTITUDE,+0 11,-0.69

13, SCAN,852,507, DEG,36.4949,85 7770 `

11, SCAN,915,421, DEG,36.4604,85 8445

12, SCAN,2303,237, DEG,35 5008,86 2533

17, SCAN,1262,1473, DEG,36 1121,85.2556

16, SCAN,2268,2626, DEG,35 2866,84 7559

2, SCAN,638,3030, DEG,36.389,84 1390

3, SCAN,769,2962, DEG,36.3044,84 2113

4, SCAN,1343,1916, DEG,36 0103,84.9946

5, SCAN,1512,1810, DEG,35 9024,85 0974

15, SCAN,2275,471, DEG,35.4978,86 1019

1, SCAN,2141,2975, DEG,35 3402,84 5140

6, SCAN,1293,1187, DEG,36 1185,85 4437

DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1285-16010 (04 MAY 73)

SCENE,1285-16010,3240

ATTITUDE,-0 02,-0.76

1, SCAN,760,147, DEG,36.6129,88.85755  
2, SCAN,890,159, DEG,36.5212,88.8775  
3, SCAN,2049,17, DEG,35.7283,89.21155  
5, SCAN,1866,324, DEG,35 8273,88 9829  
6, SCAN,1060,1026, DEG,36.3183,88 3714  
7, SCAN,1386,960, DEG,36.0986,88.4836  
8, SCAN,1658,1420, DEG,35 864,88.2557  
9, SCAN,1525,2093, DEG,35 8892,87 8056  
10, SCAN,619,2232, DEG,36 502,87 51635  
13, SCAN,2272,3095, DEG,35 2667,87 3583  
14, SCAN,2059,2773, DEG,35.4479,87 5069

DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1289-16261 (08MAY73)

SCENE,1289-16261,3240

ATTITUDE,+0.00,-0 72

2, SCAN,492,92, DEG,29.5241,96 6632, SAWMILL BR  
3, SCAN,544,637, DEG,29 4384,96.3593, BONUS  
4, SCAN,797,392, DEG,29.2821,96 5495, SHERIDAN SE  
-9, SCAN,2063,46, DEG,28 4239,96.9894, TIVOLI  
8, SCAN,1841,188, DEG,28 5663,96 8674, GREEN LAKE  
26, SCAN,1612,1028, DEG,28.652,96.3408, TURTLE BAY  
-11, SCAN,1974,910, DEG,28 4095,96 4793, PORT OCONNER  
-30, SCAN,1877,922, DEG,28 4762,96 4533, PORT OCONNER  
-7, SCAN,1365,1500, DEG,28.782,96.0240, BLESSING SE  
17, SCAN,267,2043, DEG,29 5028,95.4873, ALMEDA  
18, SCAN,390,2074, DEG,29.4133,95 4935, JULIFF  
-19, SCAN,1019,2196, DEG,28.9623,95 5494, CEDAR LANE NE  
13, SCAN,1501,1639, DEG,28 673,95 9660, MATAGORDA  
-24, SCAN,95,2792, DEG,29 5527,95.0240, LEAGUE CITY  
22, SCAN,470,2880, DEG,29.280,95 0469, HITCHCOCK  
21, SCAN,987,2606, DEG,28 9432,95.3073, FREEPORT  
20, SCAN,1069,2500, DEG,28 896,95 3840, JONES CREEK

DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1302-15551 (21 MAY 73)

SCENE,1302-15551,3240

ATTITUDE,-0.23,-0 63

1, SCAN,2220,987, DEG,35 50133,87 1884

4, SCAN,2248,2765, DEG,35 3022,86.0992

6, SCAN,512,3228, DEG,36.4703,85 4183

7, SCAN,785,1011, DEG,36 5063,86.8594

5, SCAN,425,3159, DEG,36.5374,85 4397

9, SCAN,1524,1306, DEG,35 9584,86 8370

10, SCAN,1379,1303, DEG,36 0609,86 8079

12, SCAN,1164,1757, DEG,36.166,86 4760

13, SCAN,1604,2086, DEG,35 8237,86.3712

41, SCAN,2253,2770, DEG,35 298,86.0972

15, SCAN,1943,2780, DEG,35 5141,86.0207



DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NETWORK FOR ERTS SCENE 1407-15361 (03 SEP 73)

SCENE,1407-15361,3240

ATTITUDE,+0.20,-0 88

- 1, SCAN,64,272, DEG,38 4143,82.3887
- 2, SCAN,334,26, DEG,38 247,82 6045
- 3, SCAN,1053,78, DEG,37.7361,82 7283
- 4, SCAN,70,1138, DEG,38.3226,81 8309
- 6, SCAN,1208,1512, DEG,37.4833,81.8466
- 7, SCAN,151,2146, DEG,38 1621,81 1950
- 8, SCAN,69,2272, DEG,38.2067,81 0951
- 10, SCAN,695,2167, DEG,37 7773,81 3095
- 11, SCAN,1131,3007, DEG,37.3833,80 8789
- 12, SCAN,1181,3138, DEG,37.3351,80.8094
- 13, SCAN,1155,3183, DEG,37.3484,80.7758

DAM PACKAGE APPENDIX F. SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1420-18303 (16 SEP 73)

\* SCENE 1420-18303 NORTH REELS 1-4

SCENE,1420-18303,3240

ATTITUDE,-0 03,-0.70

1, SCAN,1160,125, DEG,48 9713,123 0828  
2, SCAN,1087,571, DEG,48.9719,122.7212  
3, SCAN,1143,199, DEG,48 9761,123 0213  
4, SCAN,1504,610, DEG,48 6789,122 8147  
5, SCAN,1769,303, DEG,48 531,123.1231  
6, SCAN,1712,339, DEG,48.5667,123.0805  
9, SCAN,2275,785, DEG,48.1261,122.9076  
10, SCAN,2282,476, DEG,48 1568,123 1423  
11, SCAN,1148,829, DEG,48 8992,122 5425  
12, SCAN,930,1361, DEG,48.9867,122.0692  
14, SCAN,1456,1215, DEG,48.641,122 3394  
15, SCAN,1722,1320, DEG,48.4449,122.3400  
19, SCAN,2157,1591, DEG,48.1127,122.2649  
20, SCAN,2253,895, DEG,48.1285,122.8191  
21, SCAN,821,2308, DEG,48.9444,121.3112  
22, SCAN,927,1661, DEG,48.9517,121.8394  
25, SCAN,1526,2159, DEG,48.4778,121 6452  
27, SCAN,2108,2242, DEG,48.0671,121.7613  
28, SCAN,2163,2346, DEG,48.017,121 7008  
29, SCAN,2177,1647, DEG,48 092,122.2284  
32, SCAN,752,2650, DEG,48.9488,121.0301  
-33, SCAN,778,3084, DEG,48.8819,120 7112  
34, SCAN,2256,3151, DEG,47.8533,121.1352  
35, SCAN,1539,2855, DEG,48.3825,121.1286  
36, SCAN,2100,2535, DEG,48.0363,121.5410  
38, SCAN,2219,3118, DEG,47 8819,121.1488  
40, SCAN,2280,3220, DEG,47.8283,121.0935

DAM PACKAGE APPENDIX F: SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1420-18305 (16 SEP 73)

\* SCENE 1420-18305 SOUTH. REELS 1-4

SCENE,1420-18305,3240

ATTITUDE,-0.03,-0 72

1, SCAN,458,172, DEG,48 0417,123 4297

3, SCAN,1246,132, DEG,47 4986,123 6786

-4, SCAN,1383,290, DEG,47 3858,123.6043

-5, SCAN,1527,717, DEG,47 2367,123.2728

6, SCAN,1640,753, DEG,47.1533,123 3311

7, SCAN,242,475, DEG,48 1568,123.1423

8, SCAN,253,743, DEG,48.1189,122 9447

9, SCAN,346,162, DEG,48 1209,123.4061

-10, SCAN,1907,652, DEG,46 9788,123 4890

11, SCAN,213,895, DEG,48.1285,122 8191

12, SCAN,117,1591, DEG,48 1127,122.2649

-15, SCAN,1024,1285, DEG,47.5222,122.7620

16, SCAN,918,1244, DEG,47.6001,122 7600

-17, SCAN,1616,859, DEG,47 1605,123 2487

18, SCAN,1829,1537, DEG,46 9306,122 8057

20, SCAN,2145,1433, DEG,46.7233,122 9727

21, SCAN,137,1647, DEG,48 092,122.2284

24, SCAN,68,2242, DEG,48.0671,121.7613

25, SCAN,1052,1925, DEG,47 4252,122 2917

26, SCAN,1700,1689, DEG,47 0039,122 6568

29, SCAN,1895,2240, DEG,46.801,122.3094

31, SCAN,60,2535, DEG,48.0363,121 5410

33, SCAN,179,3119, DEG,47.8819,121 1488

35, SCAN,1138,2647, DEG,47 2781,121.7858

36, SCAN,240,3220, DEG,47 8283,121 0935

37, SCAN,1958,2468, DEG,46 7307,122.1604

-39, SCAN,2067,3147, DEG,46 5768,121 7046

40, SCAN,2159,3001, DEG,46.5263,121 8355

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DAM PACKAGE APPENDIX F. SAMPLE CONTROL NETWORKS

\*CONTROL NET FOR ERTS SCENE 1704-16231 (27JUN74)

SCENE,1704-16231,3240

ATTITUDE,+.10,-0 83

27, SCAN,1418,54, DEG,30 3455,97 7972, AUSTIN WEST  
-28, SCAN,1550,581, DEG,30 2051,97.5173, WEBERVILLE  
29, SCAN,2072,285, DEG,29 866,97.7917, MARTINDALE  
30, SCAN,1987,423, DEG,29.9131,97.6960, LOCKHART NORTH  
53, SCAN,161,231, DEG,31 2123,97.4462, CHSTRIPI  
54, SCAN,276,132, DEG,31 140,97.5265, BLAND  
55, SCAN,546,175, DEG,30 9469,97.5555, CHKSTRP2  
31, SCAN,426,1598, DEG,30 8987,96 6964, CALVERT  
32, SCAN,955,1141, DEG,30.5709,97.0728, ALCOA LAKE  
52, SCAN,522,1406, DEG,30.8494,96.8287, CALIB PT  
-33, SCAN,1787,1436, DEG,29 9597,97 0685, WEST POINT  
20, SCAN,2045,2324, DEG,29 6944,96 6030, COLUMBUS  
50, SCAN,770,2056, DEG,30.6142,96.4983, CALIB PT  
-51, SCAN,780,2079, DEG,30.6033,96.4847, CALIB PT  
-21, SCAN,1166,2110, DEG,30.3308,96 5486, SOMERVILLE  
22, SCAN,1257,2094, DEG,30.2687,96 5757, SOMERVILLE  
23, SCAN,807,2293, DEG,30 5648,96 3675, WELLBORN  
24, SCAN,835,2317, DEG,30 5434,96 3595, WELLBORN  
-34, SCAN,158,2107, DEG,31 0369,96 3426, CAMP CREEK LAKE  
-25, SCAN,2228,2673, DEG,29 5347,96 4407, ALTAIR  
40, SCAN,325,2960, DEG,30 8373,95 8808, BEDIAS  
26, SCAN,2110,2672, DEG,29.6161,96.4169, ALTAIR

DAM PACKAGE APPENDIX G: SAMPLE SPECTRAL LIMITS

(7605)

DAM WATER-LIM	. . . . .	G-3
DAM.WATER-LIM/ANDERSON	. . . . .	G-4

DAM PACKAGE APPENDIX G: SAMPLE SPECTRAL LIMITS

1 7602

(THIS PAGE RESERVED FOR FUTURE USE)

DAM PACKAGE APPENDIX G: SAMPLE SPECTRAL LIMITS

NAME, WATER (CH4/CH1)

\*ORIGINAL 2-CHANNEL SPECTRAL LIMITS MODIFIED FOR LONG NARROW WATER BODIES

CHAN, 4, 1  
RAD, 00,00, 09,63  
RAD, 01,01, 12,63  
RAD, 02,02, 14,63  
RAD, 03,03, 17,63  
RAD, 04,04, 20,63  
RAD, 05,05, 23,63  
RAD, 06,06, 25,63  
RAD, 07,07, 28,63  
RAD, 08,08, 31,63  
RAD, 09,09, 33,63  
RAD, 10,10, 36,63  
RAD, 11,11, 40,63  
RAD, 12,12, 43,63

# DAM PACKAGE APPENDIX G· SAMPLE SPECTRAL LIMITS

NAME, WATER (CH<sub>4</sub>/CH<sub>1</sub>) ANDERSON

\*ORIGINAL TWO-CHANNEL SPECTRAL LIMITS FOR WATER BY A C. ANDERSON

\*\*\*\* IF(CH<sub>1</sub>.GT.(8.5+2.826\*CH<sub>4</sub>)) MATERIAL = WATER \*\*\*\*

CHAN, 4, 1

RAD, 00,00, 09,63

RAD, 01,01, 12,63

RAD, 02,02, 15,63

RAD, 03,03, 17,63

RAD, 04,04, 20,63

RAD, 05,05, 23,63

RAD, 06,06, 26,63

RAD, 07,07, 29,63

RAD, 08,08, 32,63

RAD, 09,09, 34,63

RAD, 10,10, 37,63

RAD, 11,11, 40,63

RAD, 12,12, 43,63

RAD, 13,13, 46,63

RAD, 14,14, 49,63

RAD, 15,15, 51,63